

The CHEMIST AND DRUGGIST

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MARCH 25 1961



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The CHEMIST AND DRUGGIST

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No. 4232

Labour's Science Programme REVOLUTIONARY CHANGES SUGGESTED

A THERAPEUTIC Products Council to approve drugs and preparations for sale and use in the Health Service, and an associated Therapeutic Research Council to stimulate and coordinate research in pharmaceuticals, are two of the suggestions in the Labour Party pamphlet "Science and the Future of Britain" just published.

The views expressed in the pamphlet do not constitute official policy but are published as a means of stimulating discussion on scientific policy. It is suggested that there is a case for some form of public ownership of the pharmaceutical industry "which is so heavily supported by public funds. . . . But the large drug firms do extensive research and we would have to be sure that the intensity of research would not diminish." The pamphlet adds that there is enormous prescribing of placebos and substances of uncertain value in general practice and excessive advertisement of ill-trying remedies. It also demands much more research into mental health. "New and existing psychiatric treatments have to be tested over long periods with the humility appropriate to the present empiricism of the science (especially in the case of drugs—an American firm sold 30,000 million tablets of one tranquilliser in ten months because it was accepted uncritically)." The Minister of Health must be a major government appointment and his Ministry greatly strengthened. The emphasis in the Health Service should be on the prevention of bodily and mental disease rather than on therapy. The Medical Research Council should be enlarged with research units linked to hospitals. The view is expressed that the Ministry of Health "ought to be in the forefront of medico-scientific thinking. It needs a vigorous statistical and information service . . . the trends in ill health so revealed would guide future planning and indicate new problems for medical research." Other chapters in the pamphlet deal with the application of science in the basic industries, agriculture and education.

Nielsen Drug Index

INCREASED TURNOVER REPORTED

THE average weekly turnover by retail chemists in Great Britain during the peak Christmas period based on January 1, was £6,291,000, an increase of 13.6 per cent. over the previous year's peak period, states the Nielsen Drug Index Retailer Report. The average weekly cash sales in retail pharmacies were:—Multiples £565; large independents, £371; medium independents, £190

and small independents, £101. Compared with the corresponding figures for 1959 the increased percentage changes were:—Multiples, 13.7, and all independents, 11.8. It was estimated that multiple pharmacies obtained 43.8 per cent. of the total turnover during the period, whilst the large independents, medium independents and small independents obtained 24.1 per cent., 17.7 per cent., 14.4 per cent., respectively. The average weekly National Health Service payments during the period were:—Large independents, £155; multiples, £146; medium independents, £104, and small independents, £61.

During November 1960 independents dispensed 67.7 per cent. (an average of 1,189 prescriptions per shop per month), whilst the multiple pharmacies dispensed 32.3 per cent. (an average of 1,731). National Health Service payments amounted to 19.9 per cent. of the total turnover in multiple pharmacies and 31.1 per cent. in independents.

Where Beauty is Bought

RESULTS OF A SURVEY

CHEMISTS still dominate the cosmetics retail sales field, obtaining easily the greatest proportion of sales of all items. That is one of the facts included in a report on the cosmetics market issued by the periodical *Woman* (Odhams Press, Ltd.). Their share, however, varies according to the category of cosmetic. For hair preparations, the proportion of sales bought from chemists varies from 58 per cent. for liquid shampoo to 83 per cent. for such a product as bleaching lotion, the average being around 65 per cent. For hand cosmetics the average is over 70 per cent. When it comes to make-up for the face, the figure varies from about 70 per cent. for rouge to almost 89 per cent. for cake make-up. For other cosmetic preparations, such as cleansing cream and skin food, the average is also well over 70 per cent. The report, which was based on a survey made by the Odhams Press research division, involved personal interviews with 4,239 women between the ages of sixteen and sixty-four, in April, May and June 1960. Another finding was that over one-fifth of the purchases of eye cosmetics were

made through bazaar stores. Grocers sold about one-sixth of the purchases of shampoos, whereas the bazaar stores' share was one-eighth. Hairdressers have notably failed to break into the cosmetic field, despite the efforts of individual hairdressers and the discussions that have gone on in the trade with a view to capturing the market. In the past six years the use of liquid or lotion shampoos has increased sharply. In 1955 21 per cent. of women used a liquid or lotion shampoo in an average week; in 1960 the percentage was 37. The use of cream shampoos, which is small, has gone up from 3 to 6 per cent., and the use of powder shampoo has fallen from 12 to 3 per cent. The outstanding development is considered by the survey to have been the growth in sales of medicated shampoos.

Packaging Lectures

A RESIDENTIAL COURSE AT READING

BRITAIN'S first residential course in packaging is being held at the University of Reading from April 9 to 21. Arranged by the Institute of Packaging, in conjunction with the University of Reading, the course has been de-



HEALTH THROUGH DIET: After trying in vain to combat malaria in the Pailin district of Battambang, Cambodia, by means of tablets, which the recipients either ate in one go or threw away, and which the children would even use as toys, the country's rulers found the answer by turning to the World Health Organisation for advice. The therapeutic agent, pyrimethamine, is now mixed with cooking salt and distributed free to everybody in the district. Pyrimethamine has the advantages that it has no special taste and retains its effectiveness at the temperature of boiling water. Mixing (in the proportion of about 2,000:1) is done at the Pasteur Institute, Phnom-Penh. The buying and selling of any other kind of salt is forbidden.

signed primarily to "meet the needs of packaging men, whether in the Institute or not, who already possess some experience in the field." With an intensive programme of daytime lectures and evening discussions illustrated by films and practical visits, the course is "at a higher level than has been attempted hitherto" by the Institute of Packaging. So that students may benefit from lectures, discussions and contacts with other packaging men in the University atmosphere, the course will be limited to sixty people. Further details may be obtained from the Secretary, Institute of Packaging, Malcolm House, Empire Way, Wembley Park, Middlesex.

Census Reports for 1958

PHARMACEUTICALS, GLYCERIN, SOAP

SALES of the principal products of the United Kingdom pharmaceutical industry by larger firms (employing twenty-five or more persons on production) during 1958 amounted to £104.8 millions against £76.8 millions in 1954 according to the latest Census of Production Report (Part 29, Pharmaceutical Preparations) published by H.M. Stationery Office, price 2s. Included in both figures are the sales by establishments which are classified to other industries but the figures for the two years are not strictly comparable because of changes in the census requirements. (In 1954 establishments with eleven employees on productive work had to submit details). The first table of the report gives an estimate for the industry as a whole and puts sales for 1958 at £131.4 millions against £96.8 millions in 1954. Sales of some of the more important products (in £ thousand), by the larger firms during 1958 are shown in the accompanying table.

Antihistamines	608
Antipaludics, excluding quinine	616
Cortisone and similar steroids	3,484
Liver extracts	436
Liquid galenicals	2,744
Malt and oil	229
Malt extract	1,241
Ointments containing anti-	
biotics	1,228
other	4,085
Pills containing antibiotics ...	5,200
other	7,068
Proprietary medicines (n.e.s.)	16,453
Salines	2,052
Tablets (n.e.s.)	
Aspirin	976
Aspirin compounds	5,775
Antihistamines	853
Sulphonamides	1,830
Barbiturates	781
Other tablets	
containing antibiotics ...	4,165
other	18,625
Drugs, etc., purchased and	
bottled for sale, n.e.s. ...	2,195
Other pharmaceuticals	11,155
Adhesive plasters	3,227

n.e.s. = not elsewhere specified.

Another report (Part 34) which has also been published recently, deals with soap, detergents, candles and glycerin. It gives sales of refined (ex own crude) glycerin in 1958 by nine enterprises at

16,100 tons (valued at £2.28 millions). In addition 12,600 tons (£1.76 millions) refined ex brought-in crude glycerin (including imported) was sold. Toilet soap sales were valued at £15.8 millions while soap shampoos and shaving soap were both at a little over £½ million.

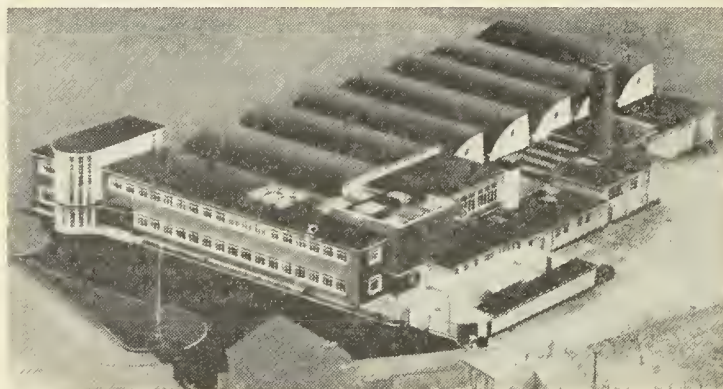
IRISH NEWS

THE REPUBLIC

Dublin Factory

DANISH DRUG FIRM'S INVESTMENT

FOLLOWING discussions with the Eire Industrial Development Authority, a new factory has been acquired in Dublin by the Leo Pharmaceutical group, Denmark. A new company has been registered, Leo (Ireland), Ltd., to synthesise and produce pharmaceuticals initially for the Irish and British markets and later for export to Commonwealth countries. Two-hundred workers will be employed and production is to start shortly.



Opticians Warned

ADVERTISING RULES TO BE ENFORCED

REGISTERED opticians have been warned by the Irish Opticians' Board that prosecutions will follow in certain cases where they have allowed their names to be published, even inadvertently. Ignorance of the rules regarding advertising will, they state, no longer be taken as an excuse. A statement issued by the Board says: "Recently the Board has found itself in a rather awkward position regarding a breach of its rules regarding advertising. Enthusiastic secretaries of Guilds and discount lists, have published the names of opticians in booklets to their members, and in some cases the permission of the optician was not asked. In other cases permission was given through ignorance. Each of these lists, and there are many throughout the country, rendered the opticians in question liable to prosecution, with quite heavy financial penalties. The Board has decided to make one last effort to avoid numerous prosecutions, and in the present instances, has decided to hold its hand. A circular will be going out to all registered opticians notifying that their ignorance of the rule, or the publication of their names inadvertently, will be followed by prosecutions." The Board is seeking the help of the secretaries of guilds, societies and the Press in avoiding these prosecutions.

THE NORTH

New N.H.S. Charges

STORMY DEBATE AT BELFAST

NORTHERN Ireland Labour Party opposition to the increased charges for National Health prescriptions ended with its four members leaving the Pro-

vince's House of Commons in protest on March 15. The new charges were passed without division after a three-hour debate. Mr. W. Morgan (Minister of Health) said he was disappointed that the Labour members, who had initiated the debate, had not remained to vote. All four made lengthy speeches. Mr. W. Boyd said the increases represented a progressive passing of the financial responsibility of the Welfare State on to those least able to bear it. If that trend continued they would have only a mere skeleton of social services. Nationalist members also spoke against the increase. Mr. R. O'Connor said the charges would not mean much to

wealthy people or those receiving National Assistance but they represented a great imposition on those in between, who were trying to raise families on comparatively small incomes. Dr. R. Simpson (Unionist) did not think the increased prescription charges would impose a great hardship. They would probably lead to a reduced number of attendances at doctors' surgeries and of calls from people who least needed medical attention. Mr. B. McConnell (Unionist) said many members wished it was not obligatory to impose the new charges in Northern Ireland, realising that in some cases people would have difficulty in paying them. But were those who opposed the regulations prepared to tear up the Social Services Agreement, which benefited Northern Ireland by £7 millions?

IRISH BREVITIES

THE REPUBLIC

TIPPERARY Chemists' Association is holding its annual dinner and dance in Kilonan hotel, Cahir, co. Tipperary, on April 6. On the same night the Irish Pharmaceutical Students' Association is holding its annual dinner and dance in the Shelbourne rooms, Dublin.

THE NORTH

THE Statutory Committee of the Pharmaceutical Society of Northern Ireland is meeting at 73 University Street, Belfast, 7, at 3 p.m. on April 5, to consider: (1) The case of a body corporate carrying on the business of pharmaceutical chemist which was convicted of the offence of selling poisons included in the Fourth Schedule to the Poisons Regulations (Northern Ireland), 1956, without a prescription given by a duly-qualified medical practitioner; (2) The case of the superintendent of the above company, who was convicted of aiding and abetting the offence.

NEWS IN BRIEF

THE official retail price index figure at February 14 was 112, being the same as at January 17 (January 17, 1956=100).

THE South African Government is launching a free national poliomyelitis immunisation campaign in May, when about 6 million people are being vaccinated with oral Sabin vaccine.

MR. H. H. Woolveridge, B.Sc. (a director of the Distillers Co., Ltd.), has been elected president of the British Plastics Federation in succession to Mr. C. H. Glassey.

THE report of the Birmingham city analyst for the fourth quarter of 1960 shows that, of sixty-six samples of drugs analysed, three were found to be incorrect.

THE Board of Trade is considering an application for the allowance of drawback of duty in respect of imported cyanoacetamide when used in the manufacture of pyridoxine hydrochloride for export.

COMPLETE nationalisation of the drug industry was urged by the Edinburgh and South-east Scotland branch of the Socialist Medical Association at a week-end conference in Edinburgh recently. Delegates from Labour and Trade Union organisations also passed a resolution calling for the full mobilisation of the Labour movement against increased Health Service charges.

FOUR more British Standards in the series relating to colouring matters in food have been published. They are: B.S.3340, Sunset yellow FCF for use in foodstuffs; B.S.3341, Amaranth for use in foodstuffs; B.S.3342, Ponceau 4R for use in foodstuffs; and B.S.3343, Carmoisine for use in foodstuffs. (The British Standards Institution, 2 Park Street, London, W.1, price 3s. each. Postage charged extra to non-subscribers.)

THE Central and Scottish Health Services Councils have jointly appointed a committee on central sterile supply departments. Chairman is Mr. E. F. Collingwood (vice-chairman, Central Health Services Council). Terms of reference are to consider and advise on the policy to be followed in providing central sterile supply services in National Health Service hospitals, and the organisation and control of central sterile supply departments.

HELD in conjunction with the sixth International Plastics Exhibition at Olympia, London (June 21 to July 1), a convention will survey current technical and commercial progress in thermoplastics. In three of the sessions international authorities will review advances in polymers and market prospects for polyolefins, vinyls and styrene polymers. A fourth session will be given over to advances in the processing of thermoplastics.

SPORT

GOLF.—SOUTH LONDON AND SURREY PHARMACISTS' GOLFING SOCIETY. Officers for 1961-62: President, R. Swindells; Captain, W. J. Baldock; Vice-captain, G. Penman; Treasurer, J. L. Wrathall; Secretary, G. Philp, 149 Wickham Way, Park Langley, Beckenham.

TOPICAL REFLECTIONS

By Xrayser

Of melancholy

The depressing events of recent weeks have caused me to seek solace in the reading of an eighteenth-century book of medical advice. What would be more likely to captivate the interest than the subject dealt with under the above heading? Melancholy, I read, may proceed from intense thinking, especially where the mind is long occupied about one object. I recognised the description and resolved to try to avoid any reference this week to the National Health Service. I had not got so far as to imagine either that I was dead or that my body was made of glass—both symptoms mentioned by my author—nor was I afraid to move in case, in the brittle condition described, I should be broken to pieces. Nevertheless, some of the symptoms were present, and I studied the work with some care for the purpose of arresting a condition that had gone quite far enough. Under the heading "Regimen," I learned that I should avoid animal food, especially salted or smoke-dried fish or flesh, all kinds of shell-fish, aliments prepared with onions, garlic or anything that generated thick blood. Strong liquors of every kind were to be avoided like poison, and tea and coffee were improper. Exercise in the open air was recommended, since that helped to dissolve the viscid humours. My company ought to consist of such persons as were agreeable to me, and I resolved to avoid—and . . . but the task of filling up the blanks I'd rather leave to you.

Medicine

It seemed, as I read on, that I was in for rather a rough time. I would have to be bled, and my body would have to be kept open with purging medicines, as manna, rhubarb, cream of tartar and the soluble tartar. The last named was to be in doses of half-an-ounce dissolved in water gruel every day, for sundry weeks or even months, if necessary; half a drachm of nitre three or four times a day, and an ounce and a half of vinegar daily mixed with my drink. Ten or twelve grains of camphire could be rubbed in a mortar with the nitre, but if I found it difficult for that to sit upon the stomach in that form, it might be made into pills with musk and Russian castor. But it is sometimes difficult, it seems, to induce people in my condition to take medicines, and if I should prove recalcitrant in that direction, then an "issue" (that is, an excision to cause a discharge of blood) might be made in any part of my body, the discharge being promoted by the use of a mild blistering ointment. Alternatively, a seton might be used, the most proper place being between the shoulder blades. It seemed highly improper to me, for I had no wish to be treated as merely a piece of material for needle and thread. Besides, think of the disturbing mental effect on one who thought he was made of glass, I found myself coming round to the view of the pharmacologist of today who despises the empirical treatments of the eighteenth century, preferring the modern approach, where nothing is left to chance. I turned gratefully to the science of the twentieth century and read the pharmacology of a drug which seemed to me to promise better things. "The precise mode of action is not known," I read. There is no room for chance nowadays.

The diploma

In answering a questioner at Edinburgh, Mr. T. Reid (president of the Pharmaceutical Society) said (p. 281) that the Society's diploma would continue, and that neither the Education Committee nor the Council had any intention of discarding it. Yet it appears, from his remarks, that none of the University schools now provide instruction for the diploma, and several technical colleges are to concentrate, in the next session, on providing instruction for the external degree of London University. Such a change, Mr. Reid said, enhanced the status of the teacher. It would seem that, no matter what the intention of the Society in regard to the diploma, it is already facing heavy odds. Formal discarding may be found to be quite unnecessary.

Council's Views on Branch Resolutions

FINAL REPORT ON MAY 1960 PROCEEDINGS

THE Council have reported on the resolutions passed at the Branch Representatives' meeting in May 1960.

Standards of Advertising

That it is the opinion of this meeting that the Council of the Pharmaceutical Society should use all its influence to improve the standards of advertising of medicines to the general public in order to eliminate exaggerated claims.

The Council agree with this resolution. The influence of the Society, however, could only be fully effective if pharmacists showed by their attitude in practice to those products for which exaggerated or misleading claims were made that they disapproved of such advertising and if they made sure that any of their own products were free from such claims.

Advertisements in Society's Journal

That it is the opinion of this meeting that the *Pharmaceutical Journal* should not accept advertisements from firms which (i) do not guarantee price protection; (ii) advertise the sale of medicinal products through channels other than pharmacy; (iii) advertise their products in a manner which cannot be substantiated to the satisfaction of the Council.

The Council viewed with sympathy the terms of this resolution. It had always been the policy of the Society that the distribution of medicines should be confined to pharmaceutical channels. For two years the Society's journal had had its own set of "Conditions Governing the Acceptance of Advertisements" and steps had been taken to revise the Code and to include in it the statement that advertisements would not be accepted where it was the policy of the advertiser of the medicinal product concerned to offer it to the public through non-pharmaceutical channels. The only exception to that rule would be where the advertisement consisted solely of a statement of a change of price, or of a distributor or of his address.

The question raised in the third part of the motion was one which had constantly exercised the mind of the Council, for the claims made for publicly advertised medicines were often at variance with accepted medical opinion. Moreover, many of those goods were exhibited in the windows or on the counters of many pharmacies, thus in effect being advertised by pharmacists themselves. It was therefore relevant to direct attention to paragraphs 12 and 14 of the Statement upon Matters of Professional Conduct (undignified display material and misleading claims).

On the question of price protection the Council did not consider that this was a factor which should influence decisions on the acceptance of advertisements.

Legislation on New Substances

That it is the opinion of this meeting that the Society should press for legislation to the effect that no new substance introduced for medical treatment should be supplied to the public except on a doctor's prescription until sufficient evidence is available to justify release from such control.

The Society's evidence to the Inter-

departmental Working Party on Legislation Concerning Medicines included a proposal that would give effect to this resolution.

Professional Conduct

That it is the opinion of this meeting that the Council should not issue any directive to the members unless they are prepared to take active steps to secure its enforcement through the Statutory Committee.

The Council proposed to adopt the following procedure. In the event of evidence being received that a pharmacist was not observing the advice he would be approached to ascertain the reason for non-observance. If his explanation was inadvertence or mistake or some other indication that he had no intention to disregard the advice, he would be warned that he should take particular care in future, but apart from that no further action would be taken. If no such explanation was forthcoming an endeavour would be made to meet any arguments he might put forward and to persuade him that he was acting against the best interests of the public and the profession. If it was thought advisable he would be interviewed on the matter. Should he persist in his attitude he would be told that if he continued to do so the Council would consider making a complaint to the Statutory Committee. If that warning was not heeded the Council would review all the circumstances of the case and unless there were grounds for making a further effort to get the member to change his mind a complaint would be made to the Statutory Committee.

General Practice Committee Report

That it is the opinion of this meeting that the Council's Report on General Practice is long overdue, and should have immediate publication for consideration and comment by the Branches.

Arrangements had been made for the Report to be the subject of the two Professional Sessions at the meeting of the British Pharmaceutical Conference in September.

Council Election Voting Paper

That it is the opinion of this meeting that (a) biographies and statements of policy, unrestricted in length, of candidates seeking election to Council be issued with the voting papers, (b) voting papers be returned in business reply envelopes issued by the Society.

The Council considered that the present practice of supplying a summary of biographical details with the voting papers best served the purpose of providing voters with information which would be useful to them at the time of voting. The information which was given was limited to well-defined particulars and only material relevant to the candidate's position in pharmacy was included. The candidate's biographical details published in the Society's journal were not so limited. The Council also considered that the statements of policy should not be unrestricted and that the present arrangements which had worked satisfactorily for a number of years should continue. However, they accepted the point that the state-

ments of policy should be not only published but also sent with the voting papers. This year business-reply envelopes for the return of voting papers would be sent as an experiment and future policy would be decided when it was seen what the effect had been.

Council Meeting Reports

That it is the opinion of this meeting that in order to combat apathy of members in the election of their Council, fuller reports of their meetings should be published in the *Pharmaceutical Journal* including the way in which individual members of Council voted.

The Council appreciated the desire of members to have more information on the report of Council meetings published in the Society's journal, but there was a difficulty arising from the fact that it was available to persons other than members of the Society. In order to overcome that difficulty it was under consideration to send a two-monthly report to Branches and a quarterly report, posted direct, to members to supplement the published report. The details of the arrangements had to be worked out before a final decision could be taken. With regard to giving information concerning the way Council members voted such data was not normally minuted but it was always open to a member of the Council to ask that his vote should be recorded.

Doctor-pharmacist Relationships

That it is the opinion of this meeting that the Code of Ethics should define the relationship between the medical practitioner and the pharmacist, with particular reference to the use of joint premises. Furthermore such information should be made available to Executive Councils.

As reported at the last Branch Representatives' meeting it was the intention of the Council to include in the Statement on Matters of Professional Conduct a paragraph dealing with the relations between doctors and pharmacists. The Council were, however, not yet in a position to reach a final conclusion on the matter.

Control of Retail Pharmacies

That it is the opinion of this meeting that the Council should investigate the distribution of retail pharmacies with a view to control.

The Council after viewing the situation that has existed since 1939 when there were 15,381 pharmacies stated the issue was by no means simply a question whether the opening of new pharmacies should be prevented in areas which appeared to have sufficient pharmacies. It could not be assumed that the existing pharmacies were necessarily giving an adequate service, hence the need for the adoption of standards by which such could be judged that would as far as possible ensure that any weaknesses in the existing pharmacies in a district were remedied, thus making it less attractive for a new business. It was along those lines that the Council felt consideration of the question of control could most profitably proceed, and along which they themselves were working through the Committee on the General Practice of

Pharmacy, whose report would contain recommendations on ways in which the conduct of pharmaceutical practice can be improved.

Medicines Containing Poisons

That it is the opinion of this meeting that the manufacture and distribution of medicines containing poisons whether for human or animal consumption should be under the control at all stages of a pharmacist and furthermore a register of authorised wholesalers should be compiled.

The Society's evidence to the Inter-departmental Working Party on Legislation concerning Medicines included

a proposal that owners of businesses concerned with the manufacture and wholesaling of medicines should be required to comply in respect of qualified personnel with the same conditions as the owners of businesses concerned with the retail sale of poisons in Part I of the Poisons List. The Society's proposals for the control of medicines would have the effect of facilitating the introduction of measures for a closer regulation of the manufacture and distribution of medicines.

(To be concluded)

BRITISH PHARMACEUTICAL CODEX 1959

Amendments and additions

THE Council of the Pharmaceutical Society of Great Britain has authorised publication of the following amendments to the British Pharmaceutical Codex 1959:—

PART I

- Page
78 BENETHAMINE PENICILLIN: **Potency.** Amend to: Not less than 1008 Units per mg. **Assay for potency.** Amend to: Dissolve about 0.05 g., accurately weighed, in 20 ml. of acetone (50 per cent.), dilute with sufficient sterile solution of standard pH 7.4 and determine the potency by the method of the British Pharmacopœia for the biological assay of antibiotics, penicillin, using the Standard Preparation of penicillin. For the purpose of the assay and calculations, the stated potency is taken to be 1090 Units per mg. The estimated potency is not less than 92.5 per cent. of the stated potency. The fiducial limits of error of the estimated potency ($P=0.95$) are not less than 80 per cent. and not more than 125 per cent. of the stated potency.
- 96 BISMUTH GLYCOLLYLARSANILATE: **Content of Bi.** Amend upper limit to 42.5 per cent.
- 100 BISMUTH SUBNITRATE: **Content of Bi.** Amend lower limit to 70.0 per cent.
- 124 CALCIUM GLYCEROPHOSPHATE: **Clarity of solution.** Amend 1.0 to 0.7 g.
- 237 DEXTROMETHORPHAN HYDROBROMIDE: **Action and Uses.** Amend the last sentence to: It is administered in tablets containing 15 milligrams or as a solution containing 15 milligrams in 5 millilitres.
- 599 POTASSIUM GLYCEROPHOSPHATE SOLUTION: **Delete:** Weight per ml. At 20°, 1.34 g. to 1.40 g.
- 715 SPERMACETI: **Introductory paragraph.** Amend the first two sentences to read: SpermaceTI is a solid wax obtained from the mixed oils which are recovered from the head, blubber, and carcase of the sperm whale *Physeter catodon* (*P. macrocephalus*) L. (Fam. Physeteridae) and the bottle-nosed whale, *Hyperoodon rostratus* Muller (Billberg) (Fam. Ziphiidae), which inhabit the Pacific, Atlantic and Indian Oceans. **Standard** Add the following: *Unsaponifiable matter.* Not less than 48 per cent. **Nickel.** Boil gently 5.0 g. under a reflux condenser for 4 minutes with 5 ml. of dilute sulphuric

acid, filter while hot, cool the filtrate, add 0.3 ml. of a 1 per cent. w/v solution of dimethylglyoxime in alcohol (95 per cent.), and make just alkaline to litmus paper with dilute ammonia solution; no pink colour is produced. **Glycerol.** To 10.0 g. add 40 ml. of alcoholic potassium hydroxide solution, and 60 ml. of alcohol (95 per cent.), boil under a reflux condenser for 30 minutes, cool, add 90 ml. of chloroform and 25 ml. of glacial acetic acid, transfer to a 1,000-ml. volumetric flask, and wash the flask and condenser with three successive portions, each of 25 ml., of water; to the combined solution and washings add 500 ml. of water, shake vigorously, dilute to 1,000 ml. with water, mix, and allow to separate; add 100 ml. of the aqueous layer to 50 ml. of N/10 periodic acid, allow to stand for 30 minutes, add 30 ml. of potassium iodide solution, allow to stand for one minute, and titrate with N/10 sodium thiosulphate, adding starch mucilage when the titration is almost complete. Repeat the operation omitting the sample. The difference between the two titrations is not more than 5.0 ml.

- 720 STEARIC ACID: **Introductory paragraph.** Add: Stearic acid may contain a suitable antioxidant such as butylated hydroxytoluene 50 parts per million. Add the following: **Labelling.** The label on the container states the name and proportion of any added antioxidant.

PART VI

- 1028 MIXTURE OF AMMONIUM CHLORIDE: **Content of ammonium chloride.** Amend upper limit to 7.30 per cent.
- 1029 MIXTURE OF AMMONIUM CHLORIDE AND MORPHINE: **Content of ammonium bicarbonate.** Amend lower limit to 1.11 per cent. **Content of ammonium chloride.** Amend upper limit to 2.50 per cent.
- 1044 MIXTURE OF POTASSIUM BROMIDE: Amend Anise Emulsion to Concentrated Anise Water. This amended formula is permissive until October 1, after which date the amended formula is obligatory.
- 1045 MIXTURE OF POTASSIUM BROMIDE AND CHLORAL: **Assay for potassium bromide.** Add "... using 3 ml. of sample and 30 ml. of N/10 silver nitrate." **Assay for chloral hydrate.** Amend to: Determine by the method for Chloral

Syrup, using 3 ml. of sample and 50 ml. of N/10 silver nitrate; each ml. of N/10 silver nitrate, after the volume required in the determination of potassium bromide has been deducted, is equivalent to 0.005514 g. of $C_2H_3O_2Cl_3$.

- 1053 MIXTURE OF SUCCINYL-SULPHATHIAZOLE FOR INFANTS: **Assay.** Amend to: Dissolve about 5 g., accurately weighed, in 10 ml. of sodium hydroxide solution and heat on a water-bath for 2 hours; cool, neutralise to litmus paper with hydrochloric acid, add 5 ml. of 5N hydrochloric acid and 75 ml. of water, and titrate with M/10 sodium nitrite determining the end-point electrometrically; each ml. of M/10 sodium nitrite is equivalent to 0.03554 g. of $C_{13}H_{13}O_3N_3S_2$. Determine the weight per ml. and calculate the proportion of $C_{13}H_{13}O_3N_3S_2$, weight in volume.
- 1054 MIXTURE OF SULPHADIMIDINE FOR INFANTS: The assay is unchanged, i.e. proceed as originally stated under Succinylsulphathiazole Mixture for Infants.
- 1087 COMPOUND EFFERVESCENT POWDER: **Assay for sodium bicarbonate.** Amend methyl red solution to phenolphthalein solution.
- 1107 Add the following: SPIRIT OF ETHER; Ether Spirit; Spiritus Aetheris; Sp. Aether:

Metric Imperial		
Anæsthetic Ether	330 ml.	3 fl. oz.
		144 m.
Alcohol (90 per cent.)	to 1,000 ml. to 10 fl. oz.	

Standard. Weight per ml. At 20°, 0.796 to 0.800 g. **Alcohol content.** 59 to 65 per cent. v/v of ethyl alcohol. **Dose.** 1 to 4 millilitres (15 to 60 minims).

- 1114 SYRUP OF CHLORAL: **Assay.** Amend to: To about 0.6 g., accurately weighed, add 2.5 g. of zinc powder, 15 ml. of glacial acetic acid and 30 ml. of water, boil under a reflux condenser for 30 minutes, cool, filter through cotton wool, wash the residue with water, and to the combined filtrate and washings add 20 ml. of dilute nitric acid and 30 ml. of N/10 silver nitrate; shake vigorously, filter, wash the residue with water, and titrate the excess of silver nitrate in the combined filtrate and washings with N/10 ammonium thiocyanate using ferric ammonium sulphate as indicator; each ml. of N/10 silver nitrate is equivalent to 0.005514 g. of $C_2H_3O_2Cl_3$. Determine the weight per ml. and calculate the proportion of $C_2H_3O_2Cl_3$, weight in volume.
- 1140 TABLETS OF FERROUS SULPHATE, COMPOUND: The change in the standard [published in THE CHEMIST AND DRUGGIST, January 21, p. 56], is permissive until October 1, 1961, after which date the amended standard is obligatory.

APPENDIXES

- 1232 DETERMINATION OF PROTAMINE SULPHATE: **Heparin Solution.** Amend 100 Units to 86 Units.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

IN a special announcement on March 14, MR. ENOCH POWELL (Minister of Health) reported the recommendation of the Standing Joint Committee on the classification of proprietary preparations that doctors need not normally go outside the drugs and preparations in the British Pharmacopœia, British Pharmaceutical Codex and British National Formulary, together with the drugs the Committee classified in categories N and P (see *C. & D.*, March 18, p. 263). The report is to be published in April. Mr. Powell said he could not in any way anticipate what would be the effect of the recommendations on the total cost of the pharmaceutical service. VICE-ADMIRAL HUGHES HALLETT asked if the Minister considered the recommendations would have the effect of reducing high-pressure advertising. MR. POWELL replied that he had little doubt the recommendations would be an assistance to doctors and "welcomed by them in exercising their judgment upon the claims which are put before them." MR. N. HIRST said that after thirty years' experience in the pharmaceutical industry he could unhesitatingly assure the Minister that many of the equivalents in the B.P. and the B.P.C. were "absolutely therapeutically excellent and good, and could replace many extravagant and much advertised articles."

Proprietary Drugs

MR. K. ROBINSON asked the Minister of Health on March 20, if he would estimate the proportion of proprietary drugs prescribed under the National Health Service falling within the Cohen Committee's categories N and P. MR. POWELL: "Roughly 1½ per cent., or 4 per cent. by value."

National Health Service Charges

MR. K. ROBINSON asked the Minister of Health if he would give an estimate of the aggregate revenue arising in the next financial year from charges imposed by the National Health Service Acts 1951 and 1952, and the National Health Service Bill. MR. POWELL, in a written reply on March 16, stated "About £18.3 millions in England and Wales."

Prescription Charges

MR. A. E. ORAM asked the Minister of Health on March 20 what consultations he had had "with professional organisations of chemists about the procedure to be followed in respect of items prescribed under the National Health Service for which the ordinary retail price is less than 2s." MR. ENOCH POWELL said he was in touch with the Central N.H.S. (Chemist Contractors) Committee. MR. ORAM then asked the Minister to bear in mind that it was important not only that the chemist should know the procedure in such cases, but that the patient should know when the retail price of the item prescribed was less than 2s. Would the Minister take that into account during the discussions? MR. POWELL: "Certainly." The question, he said, had been useful in drawing attention to the fact.

MR. KENNETH ROBINSON asked if the Minister did not think the procedure would involve the chemist in a good deal of extra work and in particular "in a lot of on-the-spot costings which hitherto he has not had to do." MR. POWELL said he did not think there would be any practical difficulty for the chemist in knowing whether an item, when sold over the counter, would cost appreciably less than 2s. Twenty-one questions concerning the cost of a week's treatment using various drugs and preparations elicited a reply from MR. POWELL that the amount used in a week's treatment, and therefore the cost, varied from case to case. That reply did not please members of the Opposition. Mr. A. MANUEL said the basis of all the questions was that the cost was much less than two shillings. Patients were constantly going to the chemist not knowing what had been prescribed, and as a result were being overcharged. MR. POWELL pointed out that, even when the ingredient cost was much lower than 2s., the "retail cost" of the item as dispensed and made up over the counter would not normally be less than 2s.

MR. K. ROBINSON asked by what authority the Minister of Health required pharmacists to collect prescription charges on his behalf and what changes in the form of contract signed by the pharmacists and by him had been made for this purpose since the inception of the Health Service. MR. POWELL, in a written reply on March 20, stated that regulations made under Section 38 of the National Health Service Act, 1948, as amended by Section 16 of the National Health Service (Amendment) Act, 1949, entitled a chemist to recover prescription charges and his terms of service, as amended in 1952 and 1956, empowered the Executive Council to reduce payments accordingly.

LEGAL REPORTS

An "Appalling Statement"

PROSECUTING counsel and defending solicitor both told Tamworth magistrates on March 15 that, during the hearing, they had sampled tablets containing poison and "felt fine." In a prosecution brought by the Pharmaceutical Society of Great Britain fines totalling £10, with £5 5s. costs, were imposed on the Tamworth Drug Stores, Ltd., College Lane, Tamworth, for two offences concerning the unauthorised sale of a poison. MR. M. T. A. Matthews, representing the company, entered pleas of guilty. MR. A. C. Castle, prosecuting, said it was a condition that the seller of any poison referred to in the Poisons List must be an authorised seller, and the poison must be labelled with the name and address of the place from which it was sold. A representative of the Society, who went to the company's shop in Coleshill Street, Fazeley, found there was no qualified chemist in charge. On the shelf was a tube of antiseptic lozenges each containing 0.2 per cent. of benzocaine, and on the tube was a warning notice that it was dangerous

to exceed the stated dose. "To anyone in the drug trade those words ought to be like a siren going off, and they must realise the lozenges could not be sold by any unauthorised person" Mr. Castle said. The name and address of the seller was also missing from the box, and what was distressing to the Society was the fact that the company was controlled by a pharmaceutical chemist and that, when he was interviewed and the offences pointed out, he said he did not realise the tablets contained a poison. That was a most appalling statement. Mr. Matthews submitted that the percentage of poison in the tablets was so insignificant that the director of the company had not realised it. It was possible for anyone to go into any chemist's shop and buy as many as thirty tubes of the tablets and not be refused.

Exultation of Flowers

AN abstract from a letter written to the Economic Secretary to the Treasury was produced and read by Alick McInnes, Braeface, Auldearn, Nairnshire, one of the two accused in the Exultation of Flowers hearing which continued at Nairn Sheriff Court on March 14. The letter was sent after McInnes and Mrs. Elizabeth Bellhouse, of the same address, who was charged with him, had made representations against purchase tax being charged on their product. The Economic Secretary stated that, despite the claim that the only physical component was water, the product was being presented in such a way as to indicate that it performed a medical function. McInnes and Mrs. Bellhouse were accused under the Pharmacy and Medicines Act, 1941, and the Cancer Act, 1939 (see *C. & D.*, March 11, p. 243 and March 18, p. 270). McInnes said in evidence on March 14 that he had protested "most strongly" to the Commissioners of Customs and Excise about purchase tax being charged on Exultation of Flowers. He told them that the preparation was not a medicine and that the Commissioners could find out from analysis that it was ordinary tap water. He said he resented being charged purchase tax for something that was not processed. He said that he had been a Bank manager in India for twenty-eight years and had come in contact with some of India's most holy men who believed that all things in life were interdependent upon each other. Their whole lives were devoted to making that knowledge more widely available and they believed that when they could get universal acceptance of the fact throughout the world, war would end. Regarding the production of Exultation of Flowers, he took the daisy as an illustration and said "If you wish real potency from the daisy without the sun method or boiling method that Dr. Edwards Bach used, you can only do so when the sun, the moon, Venus, Mars and all other elements in the universe are in a certain position in relationship with one another." After claiming that Exultation of Flowers had been used successfully to treat mental diseases, McInnes was asked why he did not use it to cure his own wife who was a voluntary mental patient in an Inverness mental hospital. He replied "Because

I have considered the problem very deeply and seriously and have come to the conclusion that Exultation of Flowers is for the masses of the people." When it was suggested his wife was one of the masses, McInnes said he had taken the preparation to the hospital and given it to the nurses, begging them to use it, but they had not done so.

After legal submissions had been given on March 18, the hearing was adjourned until April 6.

COMPANY NEWS

A. BOAKE, ROBERTS & CO., LTD.—Mr. B. White has been appointed chairman of the company and also of the holding company with effect from April 1. The present chairman (Mr. F. G. Pentecost) is retiring on March 31.

JOHN & E. STURGE, LTD.—A final dividend of 4 per cent. for the year ended December 1960 is recommended. Pre-tax profits fell from £265,948 to £235,416. Two interim dividends of 3 per cent. each have already been paid.

YARDLEY & CO., LTD.—Ordinary dividend for 1960 is 3½ per cent. (30 per cent.). Group trading profits expanded sharply from £1,575,991 to £1,788,868, subject to tax of £911,465 (against £789,856). After deducting minority interests of £18,854 (£18,042) and subsidiaries' retentions of £126,124 (£143,492), the net balance is £732,425 (£624,601).

WILLOWS FRANCIS, LTD.—An interim dividend of 5 per cent. on the Ordinary shares is being paid. The interim accounts show a reduction of net profit as compared with the corresponding period in 1959, but turnover continues to increase in all divisions, and steps have been taken to lower costs of production, which it is hoped will be effective.

REICHOLD CHEMICALS, INC., U.S.A.—Mr. Henry H. Reichhold (president) said on February 28 that 1960 earnings were largely reduced because of the world-wide shortage of naphthalene and start-up costs of the two new chemical plants, one to produce phthalic anhydride and the other to produce maleic anhydride. Consolidated sales were \$99,173,000 for 1960 (against \$100,924,000).

REXALL DRUG & CHEMICAL CO., U.S.A.—Sales and earnings reached record levels in 1960, Mr. J. Dart (president) says. Net earnings rose 6.9 per cent. to £9,359,694. Sales were up 6.8 per cent. to \$242,557,169 (from \$227,015,721). The president adds: "We believe 1961 will be another good year in spite of the fact that expenses of the company's chemical programme and foreign activities will be heavy."

E.I. DUPONT DE NEMOURS, U.S.A.—Net earnings in 1960 declined 14 per cent. because of higher operating costs, according to the company's annual report to shareholders. Net earnings were equivalent to \$8.10 a share, \$5.57 coming from operations and \$2.53 from the company's investment in General Motors. Net sales in 1960 were \$2,143 millions, an advance of 1 per cent. over 1959.

BUSINESS CHANGES

SCIENTIFIC PHARMACALS, LTD., have removed to Innox House, 436 Essex Road, London, N.1 (telephone: Canonbury 8021).

LINCOLN CHEMICALS, LTD., have removed to administrative offices, 14A New Broadway, London, W.5 (telephone: Ealing 8841).

J. P. THOMAS (CHEMISTS), LTD., Northfleet, Kent, has opened a branch pharmacy at 36 Gillingham Road, Gillingham, Kent (telephone: Gillingham 50586).

THE PROPRIETARY ASSOCIATION OF GREAT BRITAIN have removed to 623 Victoria House, Southampton Row, London, W.C.1 (telephone: Holborn 3266).

WEST AFRICAN DRUG CO., LTD., have transferred their registered office to 250 India Buildings, Liverpool, 2. From April 1, the purchasing of all goods required for the West African Drug Co.'s branches in West Africa will be undertaken by John Holt Overseas, Ltd., of the same address.

THE pharmaceutical and cosmetic business carried on by Mr. S. J. Mott, M.P.S., 26 City Arcade, Hanley, Stoke-on-Trent, has been incorporated with his pharmacy at 48 Piccadilly, Hanley. The photographic supplies business which was carried on at No. 25 has been transferred to new premises at 16 Hope Street, Hanley.

Appointments

ARMOUR PHARMACEUTICAL CO., LTD., Hampden Park, Eastbourne, Sussex, have appointed Mr. R. I. Croft their advertising and promotion manager.

AYRTON, SAUNDERS & CO., LTD., Liverpool, have appointed Mr. David S. Smith, F.P.S., A.R.I.C., their works manager.

CHARLES BEDEMAN, LTD., 180 Queens Road, London, S.E.15, have appointed Mr. A. Smith their representative to cover the East Midlands (chemist division).

JOHN KNOX (STOKE-ON-TRENT), LTD., 8 King Street, Langton, Stoke-on-Trent, have appointed Mr. W. A. Allen assistant sales manager (photographic) and Mr. D. L. Harris assistant sales manager with special duties in the North Wales area.

BIRTHS

HUNTER.—At Belfast, Northern Ireland, on March 21, to Margaret, wife of William T. Hunter, M.P.S.N.I., 20 Malone Court, a daughter.

MARRIAGES

KELLY—CANAVAN.—At Derriaghy Parish Church, Belfast, on March 17, Harold Raymond Kelly, M.P.S.N.I., Bidston, Shandon Park, Belfast, to Phyllis Gatenby Canavan, Dublin.

DEATHS

DARLING.—On March 6, Miss Constance Annie Darling, M.P.S., 12 Hill-end Road, Burnside, Glasgow. Miss Darling qualified in 1919.

GRIFFITHS.—On March 6, Mr. Edgar Thomas Griffiths, M.P.S., 168

Woodthorpe Road, Kings Heath, Birmingham. Mr. Griffiths qualified in 1911.

HARBORD.—On March 7, Mr. Paul Harold Harbord, F.P.S., 35 Coy Pond Road, Branksome, Poole, Dorset. Mr. Harbord qualified in 1903.

MASON.—On March 12, Mr. Richard James Mason, M.P.S., 121 Victoria Park Road, Tunstall, Stoke-on-Trent, aged sixty-nine.

TIMONEY.—At the Mater hospital, Dublin, Eire, on March 16, Mr. Francis Frank Teevan Timoney, M.P.S.I., 13 Shandon Drive, Phibsboro' Drive, Dublin. Mr. Timoney, who qualified in 1917, was the proprietor of a pharmacy at 60 Capel Street, Dublin, until failing health caused him to retire about two years ago. Born in Glasgow, of Irish parents, he went to Ireland as a young man and joined the Irish Volunteers. During the 1916 Rising he was attached to the garrison of the Metropole hotel, and was subsequently interned for his activities. Mr. Timoney was father of Dr. Richard Timoney (dean of the College of the Pharmaceutical Society of Ireland). There was a large attendance of members of the pharmaceutical and medical professions at the funeral, which took place to Glasnevin cemetery on March 18, following Mass in St. Peter's Church, Phibsboro'. Among those attending were the vice-president of the College of the Pharmaceutical Society of Ireland (Mr. G. C. O'Neill) and members; the registrar (Mr. J. G. Coleman); representatives of the Photographic Dealers' Association; Irish Chemists' Golfing Society; Post-Graduate Education Committee; Irish Drug Association; board of examiners of the Pharmacy College; Institute of Chemistry of Ireland, and Medical Representatives' Association.

WALKER.—On February 25 (see C. & D., March 11, p. 244).

Mr. D. Dodsley writes: The death of Martin P. Walker has removed from the pharmaceutical arena a chemist of outstanding personality. When I first met him, nearly fifty years ago, he was secretary of the Bristol branch of the National Union of Assistant Pharmacists, a body which, though short-lived, voiced the grievances of non-proprietor chemists and laid the foundations of later reforms. A man of decided opinions, impatient with the apathy of those in authority in pharmacy, Martin Walker was never afraid of publishing his views, as your correspondence column has from time to time testified. He was the only chemist I know who, as long as he was in business on his own account, declined to undertake National Health Insurance dispensing. Whether that was in the best interests of the good people of Pewsey or not is a moot point, but the fact remains that for twenty-eight years they gave him their support. I was in his shop shortly before he disposed of the business and was delighted to observe the confidence his customers showed in his knowledge and skill.

WALLWORK.—On February 9, Mr. Cecil Shorrocks Wallwork, M.P.S., 94 Elliott Street, Tyldesley, Manchester. Mr. Wallwork qualified as a chemist and druggist in 1910.

TRADE NOTES

Maltose.—Trifax N.V., Bussum, Holland, invite inquiries for maltose crystal and technical hydrate in bulk.

A 500-tablet Pack.—The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24, announce that Asmaval tablets are now available in bottle of 500.

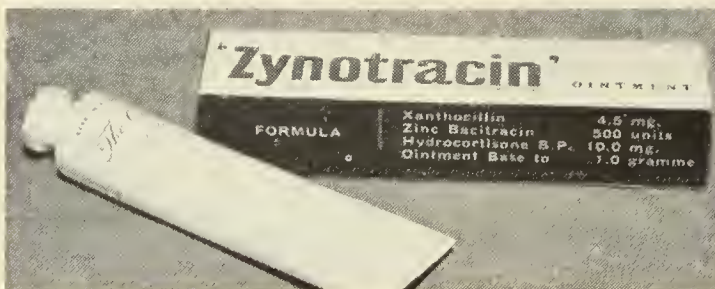
Discontinued.—Keldon, Ltd., Wadsworth Road, Perivale, Middlesex, have discontinued issuing the introductory size of Optrex eye lotion.

Delivery Service Modified.—J. H. Haywood, Ltd., Warser Gate, Nottingham, are discontinuing their Saturday afternoon delivery service after April 1.

Improved Formula, Reduced Price.—Pronel (gelatin plus multivitamins) remedy for splitting and broken fingernails is now produced to an improved formula, issued in a simplified pack, and sold at a reduced price. Sole distributors for the manufacturers, P. Leiner & Sons, Ltd., are Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1.

Retail Price Insisted Upon.—Cupal, Ltd., Blackburn, Lancs, point out that their Secto insecticides and Astral air fresheners are distributed only through retailers who agree to conform with the company's policy of selling at the recognised resale price. Messrs. Cupal, firm supporters of resale price maintenance, are motivated by the desire to avoid involving retail outlets in a "cut-price war."

Advertised Prices Corrected.—An announcement by BEAUTISALES, LTD., 35 Old Bond Street, London, W.1, in a recent issue of the *C. & D.*, gave incorrect prices for Jochem's preparations. The correct prices are: Single bottle, 9s. 8d.; (tax 4s. 10d.); Twelve bottles, £5 10s. (tax £2 18s.); retail price, 19s. 6d.—On another page of this issue appears an advertisement for Vulfix pure bristle shaving brushes by PROGRESS SHAVING BRUSH (VULFIX), LTD.,



Packed to assist the pharmacist: Carton and tube in which Zynotracin xanthocillin and zinc bacitracin ointment (see *C. & D.*, January 28, p. 79) is being issued. The tube is presented ready for the addition of directions to the patient according to the prescribers' intention.

Mottram Street, Stockport, Ches, carrying correct prices. Prices given in the company's advertisement in the March 18 issue of the *C. & D.*, were incorrect.

Story Behind Label.—Flag emblems spelling out the word Canoe are incorporated in the Canoe perfume, Cologne, soap and other products of Dana Sales, Ltd., 6 Paddington Street, London, W.1. The story is that the German occupation forces "visited" Messrs. Dana in Paris. They had "noticed" the labels, were aware that the message was in nautical code, and pointed out that the use of coded language was forbidden. So Messrs. Dana were forced to burn their entire stock of Canoe labels and to design an entirely new one, which they used temporarily. The present label, which is

NAUTICAL ENTHUSIASTS PLEASE CHECK: The flag code signals incorporated in the Canoe perfume spells out the name: C-A-N-O-E. Distributors are Dana Sales, Ltd., 6 Paddington Street, London, W.1.



used on all Canoe packings today, is the one to which the Germans objected.

Bonus Offers

DENDRON DISTRIBUTORS, LTD., 94 Rickmansworth Road, Watford, Herts. Perform eight-day hair set. Twelve invoiced as eleven on bonus parcel of one doz. Until April 7.

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1. Twin-tan. Twelve invoiced as ten. Until May 31.

IMPERIAL CHEMICAL INDUSTRIES, LTD., pharmaceuticals division. Flypel insect repellent cream. Twelve tubes invoiced as eleven (retailer pays purchase tax on all packs). Until May 27.

LILIA-WHITE (SALES), LTD., Bessemer Road, Welwyn Garden City, Herts. Lillets internal protection. Twenty-six shillings bonus on outlay of fifty-two shillings. Until May 6.

Easter Holiday Closings

THE normal Easter holiday for most manufacturers and wholesalers is from closing time on Thursday, March 30, until Tuesday morning, April 3. The following have notified that staffs will be in attendance on Saturday morning to deal with urgent orders:—

BARCLAY & SONS, LTD., 37 Devonshire Place, Brighton, 1.

GLAXO LABORATORIES, LTD., Greenford, Middlesex.

PFIZER, LTD., Sandwich, Kent.

The following have notified that urgent supplies are obtainable from John Bell & Croyden, 50 Wigmore Street, London, W.1:—

DISTILLERS CO., LTD., The Broadway, London, S.W.19.

FBA PHARMACEUTICALS, LTD., 37 Bedford Row, London, W.C.1.

HORLICKS, LTD., Slough, Bucks.

MAY & BAKER, LTD., and **PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD.**, Dagenham, Essex.

MERCK SHARP & DOHME, LTD., Hoddesdon, Herts.

PAINES & BYRNE, LTD., Perivale, Greenford, Middlesex.

PARKE, DAVIS & CO., LTD., Hounslow, Middlesex.

SANDOZ PRODUCTS, LTD., 23 Great Castle Street, London, W.1.

The following special arrangements should be noted:—

J. H. HAYWOOD, LTD., Warser Gate, Nottingham. Closed for Easter holidays and stocktaking from midday, April 1, until Thursday, April 6.

IMPERIAL CHEMICAL INDUSTRIES, LTD., pharmaceuticals division. Skeleton staff on Good Friday at Midland Regional sales office and warehouse, Scotland and Northern Ireland regional offices and warehouses open on Good Friday. Belfast sales office open on Good Friday, closed April 1-4. Pharmaceutical sales department, Edinburgh, open on Good Friday and Easter Monday, closed April 15 and 17.

PARKE, DAVIS & CO., LTD., Scottish Branch, Carfin, Lanarks. Open for business as usual on Good Friday, closed all day on Easter Monday.

BRITISH PHARMACEUTICAL CONFERENCE

Preliminary programme for Portsmouth meeting

THE preliminary programme of the 1961 meeting of the British Pharmaceutical Conference, to be held at Portsmouth, September 18-22, is:—

MONDAY: At 10 a.m., coffee in the theatre, South Parade Pier, Southsea; at 10.45 a.m., opening session and address by the chairman of the Conference in the theatre, South Parade Pier; at 2.15 p.m., science session in the Guildhall, Portsmouth; at 2.30 p.m., ladies' excursion, trip by launch round Portsmouth harbour; at 8 for 8.30 p.m. (until midnight), civic reception and dance at Guildhall. Buffet refreshments.

TUESDAY: At 9 a.m., ladies' excursion to Meon Valley and Winchester; at 9.30 a.m., professional session in the theatre, South Parade Pier; at 9.30 a.m. and 2.15 p.m., science sessions in Guildhall; at 2.15 p.m., ladies' excursions, (a) H.M.S. Victory; (b) Portchester Castle; at 6.45 for 7.30 p.m., Conference banquet at the Savoy Ballroom, South Parade, Southsea.

WEDNESDAY: At 9.30 a.m., Conference lecture in the theatre, South Parade

Pier; at 11.45 a.m., Conference luncheon at the Savoy Restaurant, South Parade; at 1.15 p.m., Conference excursion by steamer from South Parade Pier through the Solent to Cowes, Isle of Wight, then by coach around the island, with tea at Newport, returning by steamer at 7.45 p.m. to South Parade Pier. Evening free.

THURSDAY: At 9.15 a.m., ladies' excursion to Goodwood and Chichester; at 9.30 a.m., symposium session in the theatre, South Parade Pier; afternoon, sports; at 8 p.m., light music concert in Guildhall.

FRIDAY: At 9.30 a.m., science session in Guildhall. At 9.30 a.m., professional session in the theatre, South Parade Pier; at 9.30 a.m., ladies' excursions, (a) H.M.S. Victory; (b) Portchester Castle; at 2.15 p.m., science session in Guildhall; at 3.45 p.m., buffet tea in Minor Hall, South Parade Pier; at 4.30 p.m. closing session in the theatre, South Parade Pier; at 8 for 8.30 p.m. (until 1 a.m.), Conference ball in Guildhall. Supper.

NEW PRODUCTS AND PACKS

New Perfumes for Aerosol Products.—Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts, have put into their range of aerosol products a lavender-scented fly-killer for use against flies, bluebottles and other winged pests. Into the Freshaire range two new perfumes, lavender and bouquet, have been introduced.

Air Freshener.—To meet requests from the trade, Thompson & Capper, Ltd., Speke Hall Road, Liverpool, 24, have introduced an air-freshener aerosol bearing their brand name Mothaks. The pack is a blue and yellow pressurised container with white plastic cap. The perfume has proved popular with housewives in marketing tests.

Relief from Pre-menstrual Pain.—A preparation Quadrin that is being launched in April by Press advertisements in women's magazines by Burrows, Lyham, Ltd., 197 Lyham Road, London, S.W.2, is intended for the relief of pre-menstrual tension and period pain. It is claimed the first proprietary product to be sold in this country for the treatment of the pre-menstrual syndrome. Messrs. Burrows, Lyham acquired the right to use the name Quadrin. A product marketed under that name and classified in Schedule 4B of the Poisons List was discontinued in January 1961, but the company is authorised to accept returns of the original product, which they will be pleased to credit against orders for the new Quadrin, which contains 1 mgm. of homatropine methylbromide, 250 mgm. of paracetamol, 0.5 gm. of ben-drofluazide, and 10 mgm. of extract valerian, B.P.C., in each tablet.

A Mask for Bronchial Subjects.—A new-type adjustable plastic mask conforming with Drug Tariff specification is available from Hunter Bros. (Steel Fabrications), Ltd., Adderley Street, Deritend, Birmingham, 9.

Tan Cream with Sunscreen.—Twintan, a newly launched speciality distributed by Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, is "a tanning cream with sunburn screen." The pack includes a free applicator glove to keep hands from tanning.

New Cosmetic Colours.—Coty (England), Ltd., 3 Stratford Place, London, W.1, announce the following additions to their range: Coty "24" lip-stick, switchstick, and nail enamel in "whistle pink"; eye-shadow pencil in "true violet"; Airspun face powder in dark summer tan (l'Aimant fragrance only); and Golden Vanity (slim pack refill), and Vanite Parisienne (refill) in "touch of the sun."

Frosted Eye-shadows.—A series of frosted eye-shadows has been launched by Revlon International Corporation, 86 Upper Brook Street, London, W.1, under the names "gold bronze" (for the "sultry brown or hazel-eyed" girl); "silver frosted violet"; "gold frosted green," and "silver frosted turquoise."

Sun-glasses for 1961.—This year's Bartex sun-glasses include a range with "up-to-date Continental fashion flair" combined with the high-optical-accuracy



Superlens associated with, and exclusive to, Bartex products. A cut-away lens design with top-only frame is available in a range of colours to match or complement any fashion scheme. For men there is a "he-man" look in thick tortoiseshell, and for children "designs just like mummy's."

A Range of Hair Products.—Dorothy Gray, Ltd., are currently launching a new range of hair preparations.



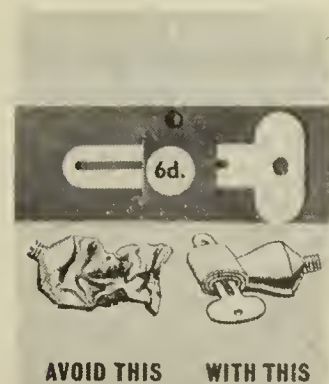
"Lights Up" is a creamy hair lightener, "without fuss or frizz," claimed simple to use. It mixes with 20-volume hydrogen peroxide to yield light, medium or dark blonde shade according to taste. "Color Bright" shampoo, in

silver blonde, honey brown, hot copper, rich sable and natural Glo shades, "foams gentle colour into hair, whilst foaming out dirt and scalp grease." It is claimed to lather rapidly even in the hardest water. "Color High" rinses provide temporary colour that can be washed away with the next shampoo. "Bright Mist" aerosol sprays an "invisible net" over hair without leaving sticky deposit. "Streak Lightening" (shades: Blonde, honey brown, hot copper and rich sable) is for use as a colour-toned hair stick to conceal embarrassing new growth on tinted hair.

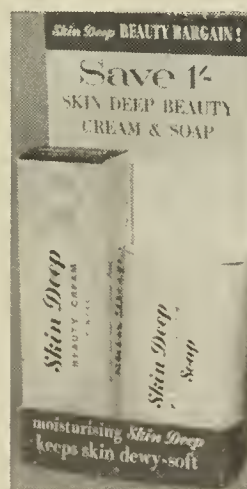
Three-heat Luxury Electric Blanket.—The new Dreamland three-heat



luxury electric blanket with safety-seal construction, marketed by Easipower Appliances, Ltd., 30 High Street, Southampton, Hants, is manufactured by an all-British electronic process that welds the assembly into an inseparable unit. For any two sections of element to close together sufficiently to cause overheating is claimed impossible, however much the blanket is misused. The flame-proofed fleeced rayon outer covers are in coral pink on one side, in sky blue on the other. They have a contrasting silver-grey satin binding all round, and the carry-home box is printed in midnight blue decorated with pink and blue squares. The blankets are fitted with five-position illuminated switches (three heating and two "off" positions).



TUBE "DISPENSER": Any male whose tube of tooth-paste suffers distortion at the hands of his women-folk will be a ready buyer of the tube "dispenser" gadget (which any housewife, accustomed to opening sardine cans, will know how to use) with advantage to economy and good family relationships. **TRIAL OFFERS:** Displays drawing attention to a "save-a-shilling" offer of Skin Deep cream and soap and a trial offer of Skinfare cream (J. & E. Atkinson, Ltd., London).



PHOTOGRAPHIC NOTES

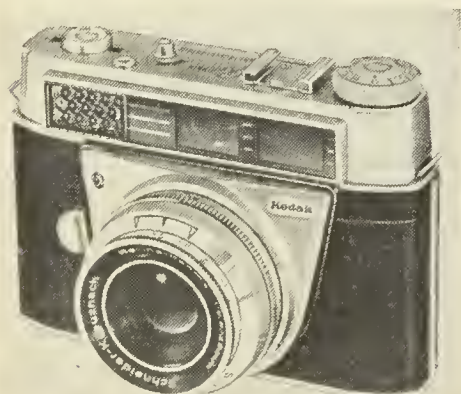
20-exposure Cassettes.—Ilford, Ltd., Ilford, Essex, are again marketing twenty-exposure 35-mm. FP3 and HP3 films (discontinued early in 1960).

A Range of Lighting Equipment.—Neville Brown & Co., Ltd., 93 New Cavendish Street, London, W.1, have acquired sole agency in Great Britain for Smith-Victor studio lighting equipment.

8-mm. Sound Home Cine Films.—Twenty home cine films with magnetic sound tracks are being made available by the G.B. Film Library, Aintree Road, Perivale, Greenford, Middlesex. They have running times of 8-10 minutes, and are suitable for 8-mm. sound projectors running at twenty-four frames per second (with sound, fifty-six frames in advance).

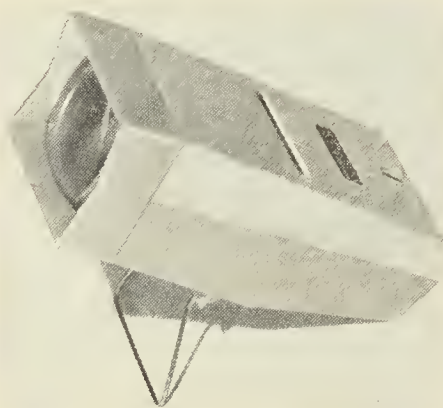
Slide Projector.—The Impala slide projector, manufactured and distributed by Morris-Whitaker, Ltd., 5 Lorrimore Buildings, Olney Road, London, S.E.17, incorporates a three-element 85-mm. lens (f/3.2), spring-held slide holder and built-in 6-volt transformer. Principal features claimed are positive edge-to-edge definition of the projected image (3 ft. sq. at 7 ft.) and coolness during use. A lamp is included.

Automatic Camera.—Kodak, Ltd., Kingsway, London, W.C.2, manufacture the Retina automatic 1 camera. Equipped with a 45-mm. Schneider 3-element Reomar f/2.8 lens and Pron-



tomat S shutter, the camera can be set to "automatic," "brief time" or "flash." The aperture range is from f/2.8 to f/22 and the shutter speed range from 1/30 to 1/300 sec., giving a total camera exposure range of 1:640 on the "automatic" setting. To operate the camera automatically, the film speed is set according to the film being used, the image is focused by rotating the lens mount (calibrated in ft.) and the exposure lever depressed. If there is insufficient light to give the correct exposure, the lever will not move beyond the half-cock position. The word "stop" also appears, on the top edge of the viewfinder. To ensure the optimum combination of aperture and shutter speed, time and aperture are simultaneously adjusted by the automatic setting. Focusing may be simplified by using one of the three click stops, situated in the centre of three zones on the lens mount, and suitable for close-ups (5.5-8 ft.), groups (8-16 ft.) and views (16 ft. to infinity) at a fixed aperture of f/5.6.

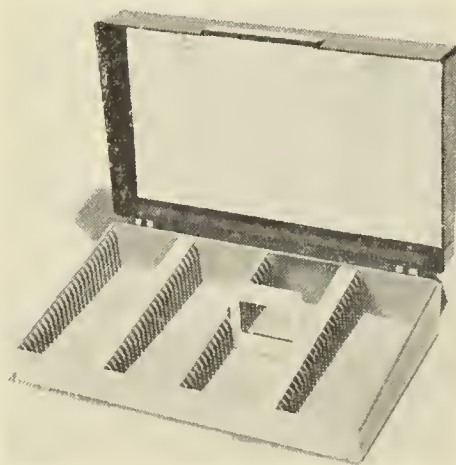
Illuminated Viewer.—A battery-operated viewer to take 2 x 2-in. (35-mm. film) transparencies is being mar-



keted by Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4. Called the Colorvue, it incorporates a hooded, optically polished lens with a two-tone plastic body. Two U11 batteries provide the current. The viewer has a folding stand.

Colour Films.—Adox colour films by Gnome Photographic Products, Ltd., Caerphilly Road, Cardiff, are available in negative and transparency forms. CN17 negative film incorporates new dyes and colour couplers, and has a speed of 17 DIN (40 ASA); it is produced as roll film (120) and in 35-mm. (20 or 36 exposures). Adox reversal film is 18 DIN (50 ASA) in speed, in 35-mm. size (15 or 36 exposures). Reversal price includes processing.

A Box for 35-mm. Transparencies.—A plastic slide box, fitted with polyurethane foam insets to protect its contents, is announced by Neville Brown & Co., Ltd., 93 New Cavendish Street, London, W.1. It will accommodate 100 transparencies (from 35-mm.



film), and is fitted with a numbered index card to facilitate identification of the slides.

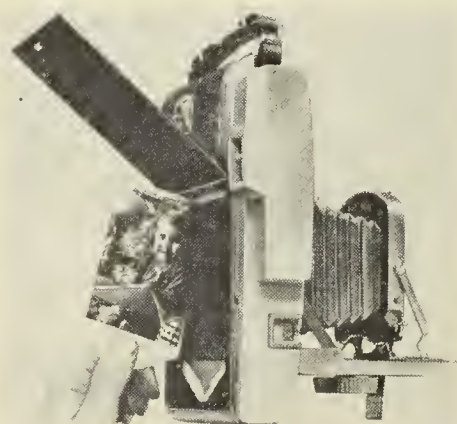
Views in Colour.—Elfincolor slides manufactured by General Photographic Supplies, Ltd., Watford, Herts, and marketed by Woodmansterne, Ltd., 25 Upton Road, Watford, offer a variety of subjects, geographical and historical, for colour viewing. Produced by direct printing from original Kodak colour negatives, they are claimed to give truer

colour renderings and greater illumination than most duplicate slides.

New Lens for a Projector.—Gnome Photographic Products, Ltd., Caerphilly Road, Cardiff, have replaced the f/3.5 lens of their Alphax 1 "baby" projector with an f/3.2 85-mm. coated 3-element lens and renamed the model Alphax 1A. The price remains unchanged.

"Unique" Daylight Film Loader.—Described as "unique among film loaders," the Watson 66 bulk loader is made by Neville Brown & Co., Ltd., 93 New Cavendish Street, London, W.1. The Watson 66 is a daylight loader for 35-mm. cassettes. It is strongly constructed of black and red plastics, has a safety interlock to prevent accidental opening of the magazine chamber, a light-tight centre spindle, exposure counter and metal winding knob. It takes up to 100 ft. of film.

Ten-second Photography.—Four remarkable cameras capable of producing prints ten seconds after exposing the film are being marketed in Britain by Johnsons of Hendon, Ltd., Hendon



A print is removed from the Polaroid Land camera, model 800, ten seconds after pressing the shutter.

Way, London, N.W.4. Manufactured by the Polaroid Corporation of Cambridge, Mass., U.S.A., the cameras are known as Polaroid Land because they are the outcome of an invention by Dr. Edwin H. Land, who devised a method of incorporating negative and positive materials with a combined developer and fixer in a single roll of film. The Polaroid Land camera is so constructed that it is only necessary to press the shutter, pull a tab and wait ten seconds before removing the print from the rear of the camera. Model 80B takes $2\frac{1}{2} \times 3\frac{1}{4}$ -in. pictures and model 800 takes $3\frac{1}{4} \times 4\frac{1}{4}$ -in. pictures; both are synchronised for flash; model 800 has a coupled range-finder. The more expensive models 850 "electric eye" and 110A take pictures $3\frac{1}{4} \times 4\frac{1}{4}$ in. The Polaroid "wink-light" is a supplementary weak flash attachment, with a range of 8-10 ft., that may be fixed to a Polaroid Land camera to erase shadows. Other accessories include an exposure meter, print copier, close-up lenses and filters. Each roll of film gives eight pictures. Projection film is available which produces a black-and-white transparency two minutes after the shutter is released.

Wholesaler Opens a New Branch

CROYDON PREMISES FOR BRADLEY & BLISS, LTD.

IN order to extend and "streamline" their service to customers in the Croydon area, the Reading firm of Bradley & Bliss, Ltd., manufacturing and wholesale chemists, opened a new branch dépôt recently at Waddon Marsh Way, Croydon. The branch is

the "original" acting as a subsequent delivery note and the four carbon copies for invoicing, accounting, stock-control and record purposes.

The delivery note is passed through to the assembly department, where the main items of stock are carried. Here

foods, sanitary towels, etc.) are added direct from the store. After checking, the items are packed into cartons and are ready for dispatch. A unique method of completing the operation is provided by a series of "flap windows," through which the goods are



Stages in filling the customer's order, showing (left) the assembly line and (right) a checking point.

intended to serve retail chemists within the South London and adjacent areas and a twice-daily van delivery service is already in operation. The service provided will be of considerable benefit to many customers on the fringes of areas covered by the company's Reading, St. Leonards-on-Sea and Sandwich dépôts, by giving them both speedier and more frequent deliveries. The company claim that the new arrangement enables a comprehensive service to be given from the Kent coast to Swindon.

The New Premises

The Croydon warehouse, which was formerly shared by machine-making and paper processing companies, is all on one floor. Messrs. Bradley & Bliss have redesigned the interior on similar lines to their Reading headquarters, which were themselves the result of applying modern planning methods. At Croydon the floors have been levelled to enable steel shelving to stand free upon them rather than be clamped down. The heating supply has been modified to provide water heating, though it is hoped eventually to install oil-fired burners.

The wholesaler's first line of contact with his customer is by telephone, and the Croydon branch has a central switchboard from which the twenty external lines are channelled to the telephone order clerks. Orders are received daily by post and telephone. Each order is made out in quintuplicate,

the workers' task is simplified by an arrangement of items in alphabetical manufacturer order within specialised sections, dealing with ethicals, proprietaries, toilet goods, sundries, photographic goods, packed drugs, surgicals and medicine bottles. The tall, adjustable steel shelving accommodating those items provides an economical use of space in that it can take a large variety of pack sizes at different levels.



Mr. J. E. Richardson, M.P.S., manager of the Croydon dépôt.

Each order is passed, with the accumulated goods, along a central conveyor belt, and is examined as it arrives at each new section. Finally it reaches a checking point, at which bulk goods (surgical dressings, baby

passed to be carried down rollers into the delivery bay, where they can quickly be loaded into the appropriate vans.

Orders are obtained each morning by post or by telephoning customers in the area served by the branch, and the goods are delivered by lunch-time. Incoming orders received before mid-morning also arrive at lunch-time, and mid-afternoon orders are delivered later in the afternoon. On early-closing days and Saturday only one delivery each is made, and orders should be presented before 11 a.m. For the convenience of customers wishing to place orders "out of hours," an Ipsophone automatic telephone has been installed.

Added Services

In addition to its normal wholesale services, the branch is able to offer the facilities of its Reading manufacturing department in the preparation of certain specialities, and in the rapid supply of items not normally classed as day-to-day goods. The surgical service also includes maintenance and repair of instruments.

Particularly comprehensive is the range of photographic equipment available from stock. The company offers a selection of cameras, projectors, films, accessories and processing materials.

The latest venture of Messrs. Bradley & Bliss is run as a self-contained unit, adapting its range of stock to meet local requirements, in the company's tradition of "personal service."

BRANCH EVENTS

FIFE

Make-up Demonstration

USEFUL sales hints and advice on beauty problems were given by Miss J. FRASER (Max Factor Hollywood & London (Sales), Ltd.) when she gave an address and demonstration on "The Art and Colour Harmony in Make-up" at a meeting of the Fife Branch of the Pharmaceutical Society in Kirkcaldy on February 28. There was an attendance of 130.

SOUTH SHIELDS

Association's Dinner and Dance

THE 150 members and guests who attended the annual dinner-dance of the South Shields Pharmacists' Association on February 8 were welcomed by Mr. B. H. BROWN (chairman). Mr. Brown, during the evening, thanked the committee and secretary (Mr. R. Wake) for the work of organisation they had put in. Each lady present was given a box of paper handkerchiefs and each gentleman a tooth-brush.

BRADFORD

"Indeed a Fine Career"

To convince headmasters and headmistresses that pharmacy was a worth-while career was a matter of some difficulty, said Mr. T. REID (president of the Pharmaceutical Society) at Bradford Branch annual dinner and dance on March 1. Yet "pharmacy is indeed a fine career for young people." Mr. Reid praised the fine department of pharmacy at Bradford Institute of Technology and its head (Dr. J. M. Rowson) who had come to Bradford, he said, with the goodwill of the Society. "We wish him well in his new appointment and look forward to the excellent results that should accrue." Over 200 members and guests were present including representatives of the Leeds, Halifax, Huddersfield and Dewsbury branches of the Society and of local medical, dental and optical associations.

EXETER

Levy "Iniquitous"

PROPOSING the toast "The Pharmaceutical Society" at the annual dinner and dance of the Exeter Branch of the Pharmaceutical Society on February 8, PROFESSOR J. GRIFFITH-MORGAN re-

ferred to the Society as "a watch dog guarding professional integrity throughout pharmacy." He said that as a lawyer he was more than usually aware of the difficulties which could arise. Replying, Mr. J. C. BLOOMFIELD (a member of the Society's Council) referred to the "iniquitous and quite unnecessary" additional 1s. prescription levy and said that pharmaceutical services accounted for only 10 per cent. of the total cost of the National Health

Service. That he regarded as very small in comparison with other services. The hospital service, he stated, accounted for about 60 per cent. Among the 120 guests present were the chairmen of the Torquay and Cornwall branches of the Society, together with members from those branches and the Plymouth Branch. Mr. J. H. Ward (chairman) presented a cheque for £26 5s. to Mr. Bloomfield for the Society's benevolent fund.

Correspondence

Good Wishes Acknowledged

SIR,—May I through your columns say a word of thanks to the old students of the pharmacy and physiology department of the Portsmouth College of Technology, who have contributed so generously to the fund raised to mark my impending retirement. My wife and I value greatly the good wishes that have been expressed, and as it is not possible to write to each, I hope this will be accepted by all as an indication of our feelings and an acknowledgment of the many kindnesses shown to us.

N. FRANCIS,

Emsworth, Hants

Arbitration

SIR,—At a general meeting of the Portsmouth and District Branch of the National Pharmaceutical Union recently, the following resolution was adopted unanimously:—

"That it is the opinion of this meeting that, when a dispute arises within the Whitley Council machinery and deadlock results, arbitration should be available to chemist contractors as it is to other bodies, and that the N.H.S. Act, 1946, should be amended for this purpose."

M. A. GUERNIER, *Secretary*,
Portsea, Hants

Bonuses

SIR,—You can scarcely be expected to check the accuracy of all the claims made in the advertisements which appear in your pages, but we should like to direct the attention of your readers to one particular inaccuracy in your March 18 issue. A double-page advertisement for "Night Tan" claims that "No other product of this type offers you such good bonus terms" and then gives the figure of 60.8 per cent. profit. Now our full-page advertisement for

"Turn Tan," which appeared in your March 11 issue, claimed 55 per cent. profit on retail and 122 per cent. profit on cost, and it is the latter figure which is comparable to the "Night Tan" 60.8 per cent. Our figure of 122 per cent. is based on best possible terms and ignores purchase tax, but even on the smallest order, and including purchase tax, the profit on "Turn Tan" comes to 66½ per cent.—over 5 per cent. more than what "Night Tan" claims.

A. L. CAMERON, *Sales manager*,
REXALL DRUG CO.,
Loughborough, Leics

Living in the Past?

SIR,—On March 12 the *Sunday Express* printed a reader's letter which asked why the chemist did not use a stronger container for tablets than a cardboard box—"now we pay him two shillings each item." On March 19 another reader asked why his chemist should not put full directions on the bottle label now he is, the writer implied, being paid more. Could we have two better examples of the ineffectiveness of our illustrious Council than that these two letters were ever printed in that way? If the letters had related to the doings of medical practitioners or solicitors, the paper would have been careful to check the correctness of the assumption with the British Medical Association or the Law Society and, if the letter had been printed, a footnote from the editor would have been added explaining matters. But no, the Pharmaceutical Society does not have sufficient pull for that! One may be tempted to ask why a letter was not sent to the paper correcting the fallacies, but that would imply that the publicity or public relations department was actually awake. Alternatively if, by a miracle, these letters were noted and answered, could we expect a national paper to print a communication from a comparatively unknown organisation such as ours? My own belief is that no correction was published simply because our "establishment" dare not let the generality of members know that it read anything so vulgar as a national paper. I mean, chaps, loss of dignity and all that! For crying out loud, wake up! The world exists outside the walls of Bloomsbury Square and doesn't give a tuppenny damn about the Society's history museum. But perhaps that odd item has been overlooked amid the important discussions on the history of pharmacy. Come to think of it, if we go on as we are, that's all we shall have—a history but no future.

NORMAN R. HAZZLEWOOD,
Sheffield, 8



Some of the guests at the annual dinner and dance of the South Shields Pharmacists' Association (see above).

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

A "Counter" Attack by the Council

It is always disconcerting for an attacker who is concentrating on one front to find that the opposition has exposed a weakness elsewhere. Many members of the Society who attended the Branch Representatives' meeting in May 1960 may well feel that the "opposition"—in this case the Council of the Pharmaceutical Society—has deftly sidestepped some of the attacks that were launched at that meeting. That is the impression gained by reading the report of the Council on the resolutions (see p. 292).

Dealing with the resolution asking the Council to use all its influence to improve the standards of advertising of medicines to the general public, the Council state that the Society's influence can only be fully effective if pharmacists show in practice, by their attitude to those products for which exaggerated or misleading claims are made, that they disapprove of such advertising, and if they make sure that any products of their own are free from such claims.

More than a hint is given in the report of possible increased use by the Council of the Statement upon Matters of Professional Conduct as a means of discipline of members. If the Council is to discipline its members in respect of products exhibited in the pharmacy, then each member must carefully review every product taken into stock. For, in these days when open shelving and open displays are becoming a regular feature in the pharmacy, the mere storing of a bottle in view of the members of the public, if it is undignified in style or contains misleading or exaggerated statements or claims, could be contravening paragraphs 13 and 14 of the Statement, even though the pharmacist merely stocked the product in answer to public demand and made no attempt to recommend the product personally.

The decision of the Council to set out details of a procedure to be adopted in respect to those who do not take heed of the Council's advice, and thereby infringe the professional code, is of more than passing interest. By including the details in a report to be submitted at the next Branch Representatives' meeting, the Council could be said to be seeking endorsement and approval for the suggested procedure. That routine is not without risk, as those who were at the last meeting can recall.

Another point that at once comes to mind in reading the report is that, although it is more than a year since the Council intended to include in the Statement in Matters of Professional Conduct a paragraph dealing with doctor/pharmacist relationships, the Council is

not yet in a position to reach a final conclusion on the matter. Surely members should be given a little more information on that point, or at least a hint of where the difficulties, if any, lie.

Control of the distribution of pharmacies, which was suggested in one resolution, has received a lengthy reply which immediately gives the impression that the matter was one to which the Council had given serious attention. It is left to the Committee on the General Practice of Pharmacy to make a report at the British Pharmaceutical Conference in Portsmouth in September.

The resolution expressing the opinion that the Society should press for legislation to prevent new substances from being supplied to the public except on a doctor's prescription until sufficient evidence was available to justify release from such control, and the resolution that the manufacture and distribution of medicines containing poisons, whether for human or animal consumption, should at all stages be under the control of a pharmacist, are dealt with in the report by a reference to the Society's evidence to the Interdepartmental Working Party on Legislation concerning Medicines, which has covered the suggestions in the resolutions.

MEDICAL ABSTRACTS

RECOMMENDATION FOR THYROXINE

CLINICAL evidence of variations in the effectiveness of thyroid tablets administered to hypothyroid cases is presented by Macgregor (*Lancet*, 1961, I, 329) in support of the increasing tendency to use *l*-thyroxine sodium instead. It is suggested that a biological assay for thyroid preparations should be specified if they are to be retained in the next edition of the *B.P.*, and that batches of tablets should be given an appropriate expiry date. Pharmacological, therapeutic and economic factors justify the suggestion that thyroxine should be used in all thyroid replacement therapy.

ALLYLESTRENOL: AN ORAL PROGESTOGEN

PRELIMINARY results of a clinical trial on allylestrenol (chemically 17α -allyl 17β -hydroxy- Δ^4 -ene)* at the Royal Northern and General hospitals, Newcastle-on-Tyne, confirm previous accounts of the compound's progestogenic activity, unmarked by androgenic side-effects. Field-Richards and Snaith (*Lancet*, 1961, I, 134) report that allylestrenol was effective and well tolerated in the majority of cases of threatened abortion, premenstrual tension, menstrual disturbances (menorrhagia, amenorrhoea, anovular menstruation, true metropathia) and dysmenorrhoea encountered in general gynaecological practice during the test period. Treatment lasted from three to six months. Features considered worthy of further study were (a) the drug's effect on dysmenorrhoea—progesterone itself tends to increase discomfort, and (b) an apparent rise in libido during treatment in some patients.

*Gestantin (Organon Laboratories, Ltd.).

A PHARMACIST'S ANTHOLOGY

A CHARGE OF EMBEZZLEMENT

From "The Adventures of Roderick Random,"
by Tobias Smollett.

My master having several times missed large quantities of medicines, of which I could give no account, at last lost all patience, and in plain terms taxed me with having embezzled them for my own use. As I could only oppose my single asseveration to his suspicion, he told me one day, "Bv Gar, your vord not be give me de satisfaction—me find necessaire to chercher for my medicine, pardonnez moy—il faut chercher—me demand le clef of your coffre a cette heure." . . . What was my horror and amazement, when opening my chest, he pulled out a handful of the very things that were missing, and pronounced, "Ah ha! vous êtes bien venus—mardie, Mons. Roderique, you be fort innocent!"

Pharmaceutical Society of Northern Ireland

MONTHLY MEETING OF COUNCIL

A NEW member was welcomed and another co-opted at the monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland in Belfast on March 16. The member welcomed was Mr. Brian Flatley and the co-opted member was Mr. Alec T. Hardy. Mr. Hardy's co-option was proposed by Mr. H. W. GAMBLE, O.B.E., and seconded by Mr. W. H. BOYD.

THE SECRETARY (Mr. W. Gorman) read a letter from the Pharmaceutical Society of Great Britain stating that its Council proposed to reconsider the matter of reciprocity in three years' time in the hope that the 1955 proposals—a three-year course at a University or similar institution in addition to a period of practical training—would by then have been adopted by the authorities. Mr Gorman also read a letter from the Ministry of Home Affairs signifying approval of the Council's appointed examiners for 1961.

It was agreed to make the annual visit to Londonderry on Thursday, May 18. Mr. D. MOORE reporting on the C.W. Young Scholarship Fund said that, although the efforts had had to be curtailed throughout the influenza epidemic, it had now reached the half-way mark of £2,500. He appreciated the work of those members of the Committee who had

made personal calls on pharmacists, and in particular was grateful to Mr. J. Gordon.

Reporting on the meeting of the Education Committee of March 2, Mr. N. C. COOPER outlined a detailed discussion on the immediate future and the education policy of the Society and the teaching facilities in Northern Ireland. He revealed that arrangements had been made to meet Ministry of Education officials to discuss the problems. Thanking Mr. Cooper for his comprehensive report THE PRESIDENT said "We are very lucky to have a man like him as chairman of the Committee. It was a good day for us when we co-opted him." The report was adopted on the motion of Mr. G. E. McILHAGGER, seconded by Mr. J. GORDON. Accounts totalling £127 6s. 4d. were passed for payment.

Present were the president (Mr. A. Templeton), and Messrs. J. Gordon, D. Moore, Walter C. Tate, R. M. Watson, W. T. Hunter, G. E. McIlhagger, N. C. Cooper, M.Sc., H. G. Campbell, and W. J. Thornton. Apologies for absence were received from Professor O. L. Wade, M.D., Dr. R. G. R. Bacon and Messrs. F. R. Moore, J.P., S. E. Campbell, W. P. Ewart, J.P., W. S. Hall and J. Kerr. The secretary (Mr. W. Gorman) was in attendance.

Pharmaceutical Society of Ireland

MONTHLY MEETING OF COUNCIL

THE dangers attached to the indiscriminate sale of tranquillisers and "pep pills" were referred to at the monthly meeting of the Council of the Pharmaceutical Society of Ireland in Dublin on March 14 when, after a lengthy discussion, further consideration of the matter was adjourned to a special meeting to be held on March 27. The matter arose following the receipt of a letter from a lady in Dun Laoghaire deploring the fact that tranquillisers could be obtained without restriction at chemists' shops. She had been assured that two recent car crashes had been due, not to the consumption of drink by the drivers, but to overdoses of tablets, and she suggested that the Council should advise its members to be more careful in selling such products.

Quandary Over Tranquillisers

MR. M. L. CASHMAN said he had had experience of particular customers seeking tranquillisers and did not really know what to do about it. One person in particular was consuming a fabulous amount, and even knew where the tablets were located in the pharmacy. Taken within reason the products brought no harm, and it was only right that there should be some sedative of a harmless nature available to the public. However, the demand for the tablets was assuming fantastic proportions—possibly due to the advertising campaigns being carried on in the national Press. He thought such advertising should be controlled in the public interest.

MR. G. C. O'NEILL said it was interesting to find that the same views had been expressed at a meeting of the Committee that morning at which Mr. Cashman had not been present. The Committee had felt that there should be some form of control over the advertising, and it was also the feeling that it should go out from the Council meeting that chemists should try at least to curb indiscriminate sale of such tablets. Against them as a profession was the undesirable publicity attaching to a court case in Waterford recently, in which the mother of a boy charged with larceny had stated that he had been given "pep pills" by a companion.

MR. CASHMAN repeated that he thought the public had a right not to be denied complete access to sedatives. The fault lay with mass advertising and television, whereby the

first stage of inoculation was created in the patient. He wondered if control of advertisements in that respect was covered by legislation. Supplies should be confined to rational and reasonable use.

MR. V. G. MCELWEE said it was a question of conscience with each individual. Every chemist had one or two addicts, and he himself had refused to supply certain people without a doctor's prescription. He believed that nothing less than a directive should go out to members from the Council asking them not to supply those drugs.

MR. R. J. SEMPLE thought that people addicted to such drugs should be catered for by the Board recently set up to deal with mental health. It was difficult to know whether habit or compulsion forced people to seek those tablets. If they were not advertised so much perhaps the public would not know so much about them. Perhaps more control over sale could be exercised under the new Poisons Act. Unfortunately, when addicts got into trouble, the blame was always placed on the chemists, and steps should be taken to let the public know that pharmacists were not responsible for misuse. The public seemed to think chemists were making money out of tranquillisers and running a dope ring. That was just one more reason why the Council should appoint a publicity officer.

MR. R. J. POWERS said it should be made clear that chemists were quite willing to co-operate in the public interest in this matter. In theory any grocer could sell the tablets. The Council should advise pharmacists not to sell those products.

MR. T. R. MILLER said the reason a lot of the preparations were sold was because a number of unfortunate pharmacists felt they had to sell them in order to keep going. They did not want to sell them, but were forced through economic circumstances to do so. If they were able to earn a proper living pharmacists would not sell such preparations over the counter.

National Press Indicted

MR. M. POWER agreed that the problem was a difficult one and said he would not hesitate to blame the national Press for the situation at present obtaining. The chemists did not recommend such preparations, which were invariably asked for by name. The national Press was making

the money, yet if anything went wrong it was the chemists who were blamed.

MR. D. J. KENNELLY said that the preparations were restricted in England and could not be had without a medical prescription. They were not advertised in the English Press. In the Republic, few chemists recommended the preparations advertised. If the Press refused to accept those advertisements he thought the matter would be quickly solved.

MR. R. J. POWER said that, because of their ethical approach, chemists were co-operating, but the public did not know that. They should bring that fact to the public notice so that they would not be accused of trafficking in drugs.

THE PRESIDENT (Mr. F. Loughman, T.D.) said they should suggest to the Press that, before accepting such advertisements, editors should refer them to the Council for their advice, and MR. MCELWEE said pharmacists had a moral responsibility and he would not be in favour of deferring a decision until the Poisons Bill came into operation.

MR. J. P. O'DONNELL said members should not be blamed for the increased public demand for such preparations because they had never encouraged their sale. The trouble lay first with the lay Press and later with doctors and nurses distributing samples. He was in favour of requesting chemists to curtail sales, and would suggest that a prepared statement should be supplied by the Council to the pharmaceutical Press setting out the Council's views on the matter. MR. J. GLEESON said that some years ago the Department of Health had asked members to exercise discretion in the sale of dexamphetamine.

Committee Appointed

The Council appointed a Committee consisting of Messrs. M. Costello, T. R. Miller, M. L. Cashman, R. J. Power and R. J. Semple to investigate the complaint referred to at previous meetings that supplies of medicines were being made available to the public at out-patient departments in certain hospitals.

THE PRESIDENT told Mr. Semple that no action had been taken on the matter since the previous meeting because he understood the hospitals were about to form a federation, and it would be easier to deal with them as a group rather than individually. MR. SEMPLE suggested that the Council should ask the Hospital Pharmacists' Association to submit some proposals, so that the Council could act on them.

MR. MILLER said the greatest offenders in the matter were the private hospitals, which were run by boards. He thought it was ridiculous that such hospitals should be handing out medicines at a nominal price, while pharmacists were being deprived of their livelihood. However, it was only fair to point out that hospital pharmacists were afraid to "stick out their necks" by objecting to the practice. The attitude of the boards of private hospitals appeared to be that they would not turn anybody away, but he thought it was morally wrong that a person should be able to walk into those hospitals and get medicines virtually free.

MR. SEMPLE thought that, seeing that the hospital pharmacists were in such a false position, the Council should make representations to every hospital board, religious and lay, asking that at least one pharmacist should be appointed to the board to give advice on pharmaceutical matters.

MR. CASHMAN said he distinctly remembered a circular being sent out by the Minister for Health about five years ago to hospitals pointing out that, under the health scheme, those entitled to free medicines were to get them under the dispensary system, and those not entitled to them were not to get them either at hospitals or dispensaries, but to provide for them out of their own means. A lot of slackness had set in since then, and he was aware that medicines were being handed out at hospitals to people outside the scheme. He was told of a doctor who had recommended a patient to go to a hospital instead of to a chemist for

barbiturates, telling her that "she would get them by the thousand there." That woman's husband was earning £3,500 a year. The present situation had arisen because certain specialists were trying to further their own interests. At the same time it was only reasonable that specialists should try elsewhere for medicines for blue-card holders when they could not be got at dispensaries within a reasonable time. The failure of dispensaries to cater for blue-card holders had given rise to the present position, in which supplies were given to all classes at hospitals. They should point out to the Minister that the spirit of the Health Act was not being adhered to.

THE PRESIDENT said he had met a group of hospital pharmacists since the previous meeting, and it appeared that, so far as public hospitals were concerned, there was little complaint against them in the matter. The real complaint was against the private hospitals. Until the hospitals formed the proposed federation, he did not think there was much point approaching them. It was undesirable that phenobarbitone tablets could be acquired by the thousand in that fashion from hospitals, and it would be dangerous if they were left lying around a house.

MR. MILLER agreed with Mr. Cashman that they should write to the Minister about the matter.

Drug Sales by Voluntary Hospitals

MR. M. COSTELLO said that, some years ago, the late Mr. Scott, Mr. Cremen and himself had raised with Department officials the question of voluntary hospitals supplying medicines for payment or part-payment. Mr. Scott had also raised the question of medicines being given out in that manner at county hospitals, and the officials had told them that, if they had any particular instance in which that had been done, they should bring it to the Department's notice immediately, and the Department would act on it. However, so far as the voluntary hospitals were concerned, the officials had pointed out that they would be loath to interfere with them.

MR. R. J. POWER said that, in law, local authority hospitals had to supply out-patients. There was no way of approaching the voluntary hospitals which, because of their sheltered position, were evading the law and were therefore interfering with the rights of pharmaceutical chemists to dispense prescriptions to certain classes. He suggested the Council should either contact the Health Department or ask the Irish Drug Association to make direct contact with the individual hospitals. Mr. Power added that it was not the fault of individual pharmacists in hospitals that medicines were being distributed in that manner. The pharmacist unfortunately occupied a minor position. There was no question of lack of courage on his part, but there was no way of defeating the practice.

THE PRESIDENT recalled that in the Dail recently a motion by Dr. Browne regarding chemists' prices had been overwhelmingly defeated. In the course of the debate the Minister for Industry and Commerce (Mr. Lynch) had made a wonderful defence of the pharmaceutical chemists. Mr. P. A. Brady had also made a magnificent contribution on behalf of the profession and had submitted a list of items in which the prices charged by Irish chemists were lower than those charged in England. He believed the chemists had been much vindicated by the defeat of Dr. Browne's motion. MR. R. J. POWER thought it should go on record that the Council was deeply indebted to the president and Mr. Brady for the able manner in which they had defended the case of the pharmacists.

THE REGISTRAR said he had communicated with the Irish Glass Bottle Co. in regard to the supply of 10-, 12- and 20-oz. hexagon poison bottles, and had been informed that the demand for them was negligible. The company had pointed out that, if any chemist wanted them, he would have no difficulty in importing them if they were made by any English company. The Irish company would provide facilities for their importation.

(To be concluded)

PHARMACY IN FRANCE

Two speakers report their impressions

"PHARMACEUTICAL Practice" and "Pharmaceutical Education" were the titles of papers given by Dr. J. B. Stenlake and Mr. C. G. Drummond at the third meeting of the 109th session of the Scottish Department of the Society in Edinburgh on February 17, as part of their report on "Some Aspects of Pharmacy in Northern France."

DR. STENLAKE'S paper gave details of academic pharmacy as noted by him during the week he and Mr. Drummond spent in France in 1960 under the auspices of the Franco-British Pharmaceutical Commission. He then visited the Faculty of Medicine and Pharmacy of the University of Lille, situated in a large modern block forming one wing of the city hospital. Medical and pharmaceutical students were, he said, taught for some of the time side by side in the same classes and by the same professors and lecturers. The total undergraduate student population of the faculty of pharmacy was about 350, spread over four years of the undergraduate course, which commenced only after a preliminary year of practical training in pharmacy. There was a large first-year wastage, which could be judged by the fall in student numbers from 130 in the first year to about eighty in the second. On completion of the course students took the University examination for their *Licencie en Sciences*, which was the equivalent of the Bachelor of Science or Bachelor of Pharmacy degree. The receipt of the degree was not an authority to practise, and graduates waited until they were twenty-five years of age before they became *Pharmaciens*. Only then were they entitled to keep shop.

An Individual Responsibility

The principal outlet for graduates at Lille was retail pharmacy, which accounted for 90 per cent. of the output of the faculty. In France the pharmacist, whether in hospital or retail, was personally responsible for the quality of the material he used. The responsibility could not be passed back to the manufacturer. Consequently it was everyday practice for the pharmacist to check incoming stocks for compliance with pharmacopoeial or other standard specifications. The pharmacist in France also fulfilled the functions of public analyst, and the examination of milk, butter, wine, beer, vinegar and water formed quite a large part of his practical training. Some pharmacists also undertook routine biochemical analyses of blood, urine, etc.

The general pattern of the undergraduate course was that, during the first year, chemistry (inorganic and organic), physics, zoology and botany were studied. In the second year organic chemistry, pharmaceutical chemistry and pharmacognosy were the subjects, followed in the third and fourth years by pharmaceutical chemistry, pharmacognosy, clinical biochemistry, parasitology, toxicology, and galenical pharmacy. The greater

part of students' manufacturing and dispensing experience was gained under sternly realistic conditions in a hospital department under the chief pharmacist and his deputy. During the time spent in the department the students tackled all aspects of the work. Two were on duty each night and might be called upon to undertake routine biochemical analyses required in connection with any emergency.

High Retail Standards

MR. DRUMMOND said he had gained the impression that retail pharmacy in France appeared to be a recognised profession, rightly held in the highest esteem by the public. Nothing in the appearance of the pharmacies suggested that they were merely retail shops. They were distinctive, dignified, spotlessly clean and well fitted, and they proclaimed unmistakably that they were different. The word *PHARMACIE* on the fascia was unnecessary, for the premises could never be thought to be anything else. Internally, the care taken to combine dignity and utility, tradition and modern development obviously gave intense satisfaction to the French pharmacist. In the pharmacies he visited there were no window displays of cosmetics or toilet articles or advertised proprietary medicines. It seemed possible to exist professionally and pharmaceutically on a ratio of one pharmacy to rather fewer than 3,000 people.

Dispensing of medical prescriptions was a substantial part of the business, and the State pharmaceutical service resulted in an expenditure of roughly 20 per cent. more than the equivalent in this country, though the population was smaller and the service did not cover the whole population. The patient using the French Social Security system obtained prescriptions from a doctor but paid the pharmacist for his medicine and recovered about 80 per cent. from the service on application. With specialities no labelling was done by the pharmacist. The doctor's instructions were written on the prescription which was returned to the patient after reimbursement by the Social Security. There were standard packs of the ethical proprietaries and the doctor usually requested the supply of one pack. The "French pharmacist knows not the frustration and annoyance of broken bulk."

For the section of the public unable to meet the initial outlay at the pharmacy the doctor issued a special form on the receipt of which the pharmacist supplied the medicine without charge, retained the form, priced it and sent it to the Prefecture for payment. Although ethical proprietaries occupied a large part of the physician's armamentarium the doctor was limited to an approved list of drugs on which the maximum rebate could be claimed by his patient.

Mr. Drummond said he saw no form of medication that was not used in this country but there were wide differences in emphasis: more injections and a

wide variety of treatments in oral ampoules were employed in nervous conditions, for hæmorrhage, for circulatory disorders and as tonics. "Still more impressive is the widespread use of suppositories for all forms of illness." Counter-prescribing by the pharmacist was decreasing.

Inspections

Since 1903 there had been a system of inspection of pharmacies in France under an act "to ensure the application of the laws and regulations, to repress fraudulent medicaments and materials, and to verify the good quality of the products." The Act provided for an inspection of factories and pharmacies at least once a year to ensure the conditions under which the medicines were manufactured, stored and supplied were hygienic. The inspection was carried out by an inspector of health appointed under the code of pharmacy. It was his duty to inspect the records required to be kept by the pharmacist. The prescription book was a professional secret. The poisons book was open only to the inspector of pharmacy. If it was necessary for the police to examine the poisons book such examination would only take place in the presence of the inspector of pharmacy. The register for Dangerous Drugs indicated more stringent regulations than those that obtained in the United Kingdom in that all purchases and all uses must be recorded immediately, whether on a prescription or in a preparation, so that a balance might be struck at intervals. Prescriptions of barbiturates, etc., could be repeated unless contrary instructions were given. It might not, however, be repeated inside the period covered by the directions. Thus, if thirty tablets of one of the barbiturates were prescribed, with a nightly dose of one tablet, the prescription could not be repeated until thirty days had elapsed.

Small-scale Manufacture

Mr. Drummond referred to the movement known as the S.P.A.D. (*Société Pilot de l'Amicale des Pharmaciens de Dunkerque*), which had now seventy-two supporters—pharmacists who manufactured, by individual small-scale effort in the pharmacy, products based on a group formula and labelled with a standard label that was only available to those who operated the scheme in its entirety. The experiment appeared to be successful. The traditional sources of manufacture saw a possible threat to their prosperity and were not prepared to accept "undesirable opposition." They offered to manufacture the preparations for the pharmacist, but members of the group insisted that the preparations must be made in the pharmacy. Some of the preparations had also been formulated to be suitable for retail sale, and the public had responded to the quality offered.

The hours of service for French retail pharmacy were from 9 a.m. to 12

noon, 2 p.m. to 6 p.m. or 6.30 p.m. A comprehensive and carefully planned rota service was given on Sundays and during the night, but once in four months each pharmacist was called upon to undertake rota duty when the duty pharmacist remained in the pharmacy all night. Any breach of the rota, either by failing to give the prescribed service or giving service out of turn, was dealt with with the utmost severity. On the first occasion such a breach was rewarded by a personal call from the president of the Syndicat (roughly equivalent to the National Pharmaceutical Union) who warned that any future delinquency would result in appearance before the Government body which had power to revoke the licence. The utmost pressure was brought to bear, and departures from established practice were now non-existent.

Regarding the pharmaceutical organisation in France there was the *Ordre National des Pharmaciens*, carrying out roughly the functions of the Pharmaceutical Society, with a council of twelve members. Pharmacy in France was personal, being built round the individual pharmacist. Mr. Drummond said, "Overall, the picture is one which should satisfy the highest ideals of an ancient and honoured profession, and Britons could not but admire and, it may be, envy it."

During the discussion which followed, Mr. H. H. CAMPBELL, Edinburgh, asked about the proportion of women entering the profession of pharmacy in France. Dr. STENLAKE replied that, at the two university lectures which he had attended, there seemed to be quite a high proportion of women students. He thought that the proportion would be similar to that in this country.

Mr. J. B. GROSSET, Edinburgh, asked why there was such a wastage at the end of the first year of the university

course. He understood that the school leaving standard in France was higher than here. Dr. STENLAKE said he thought that it was at least as good as the Scottish Highers. He believed that the wastage was caused by a deliberate policy to make examinations difficult at that stage so that students unlikely to qualify could be eliminated at an early stage. Dr. J. H. TAYLOR, St. Andrews, asked why physiology had not been referred to by Dr. Stenlake as part of the curriculum for the French student. Dr. STENLAKE said that as far

as he could make out this subject came under the heading of pharmacology and he was quite certain that there was instruction in physiology.

Mr. H. H. CAMPBELL, Edinburgh, said that it had been emphasised that the Frenchman was a realist in the practice of pharmacy as in other matters particularly in that he believed in one year's practical training at the beginning of the course.

(The two papers were also given at the meeting of the Glasgow and West of Scotland Branch on March 8.)

PHARMACY EXAMINATIONS IN BRITAIN

Privy Council Visitors' reports

"THERE is evidence, however, that more adequate arrangements will be required to be made to ensure consistency in assessment of written work and to reduce the length of the examination period which at present adversely affects both the candidates and examiners." That was stated by Professor Wilson (Privy Council visitor to the Pharmaceutical Society's examinations) in his report on the Pharmaceutical Chemist Qualifying Examinations (new regulations) held in England and Wales in 1960. Professor Wilson found that the results of the written examination, Part I, and of the written and practical examinations, Part II, were on the whole satisfactory, but thought that the difficulties to which he referred might be reduced by the introduction of examination methods similar to those already provided in most universities. He had been assured that the officials of the Society had the matters already under discussion. In the Intermediate examination there had been some improvement in the performance of candidates in chemistry, but the percentage pass rate in biology remained too low to be regarded as satisfactory. Of 216 examined in the Intermediate examination, 44.9 per cent. had passed, 33.3

per cent. had been referred and 21.8 per cent. failed. In the Pharmaceutical Chemist Qualifying examination (old regulations) 473 candidates had been examined in all subjects; 36.1 per cent. had passed, 25.6 per cent. failed and the remainder had been referred in one or two subjects. The results were approximately similar to those reported for the examination of 1959. 144 candidates who had passed an approved pharmacy degree examination were examined only in forensic pharmacy and 97 per cent. passed.

Scotland

Professor Dunlop (Privy Council visitor in Scotland) reported that the examinations held during 1960 did not differ materially from those of past years. The failure rate continued to be high for an examination of that nature, and there was a dearth of really good candidates. The high rate of failure was not the result of any undue harshness on the part of the examiners. Experience of the examinations conducted under the new regulations was insufficient to justify any immediate conclusions as to their success, but there seemed two obvious criticisms. Pharmacognosy was studied over two years with an examination at the end of each of them. That subject was not now of sufficient magnitude and importance to justify prolonged study and a duplicate examination. A single examination at the end of the first year should suffice. The examination in physiology took place at the end of the first year, while that in pharmacology occurred at the end of the third. There was thus a gap of a year between two disciplines that were complementary to each other, as pharmacology was simply an extension of physiology and used similar techniques. Professor Dunlop considered it would seem more sensible to have the examination in physiology at the end of the second instead of at the end of the first year, and followed immediately by the study of pharmacology. In Scotland, out of ninety-three candidates for the Intermediate examination 47.3 per cent. had passed, 26.9 per cent. been referred and 25.8 per cent. failed. Of the 554 candidates for the Pharmaceutical Chemist Qualifying examinations in January and July 1960, 44.2 per cent. had passed, 15.2 per cent. been referred in one subject; 21.5 per cent. referred in two subjects, and 19.1 per cent. had failed. In the Part I examination held during July and September, of twenty-six candidates, eighteen had passed, five failed in one subject and three in two.

PRIZE-GIVING AT LIVERPOOL

College efforts to stimulate interest in pharmacy

DURING the past year staff of the department of pharmacy, City of Liverpool College of Technology, have been active in drawing to the attention of potential entrants the prospects of a career in pharmacy. Speaking recently at the department's prize-giving, Mr. T. L. BOWYER (head) said that a brochure entitled "Pharmacy for You" had been produced by members of the staff and distributed to grammar schools served by the college; in addition, staff were visiting schools, careers meetings and conventions to offer information on pharmacy.

Building of the second phase of the college would, he said, commence shortly. It would help towards accommodating the intended degree courses. Pharmacists of Merseyside hospitals were thanked for their co-operation in training students. After presenting the prizes, PROFESSOR K. BULLOCK traced the history of medicine from the quest for the alchemist's elixir of life to the present century in which biochemistry, enzymology, chemical physiology and pharmacology were united in the search for rational explanations of

diseases. Formulation was, he said, a prerequisite of efficient drug action and that rational scientific system of medicine could well be a pointer for the future of pharmacy.

Prize List

First Year Final Course: BOOTS and TIMOTHY WHITES' & TAYLORS prizes for best all-round students: Mrs. D. J. Ash, Mr. P. Hughes; EVANS MEDICAL prize (pharmaceutics): Mr. P. W. Young; DISTILLERS CO. (BIOCHEMICALS) prize (microbiology): Miss M. R. Cartmel; NATIONAL ASSOCIATION OF WOMEN PHARMACISTS (MERSEYSIDE) prize (for female student making most consistent progress): Miss B. Tandy.

Second Year Final Course: TIMOTHY WHITES' & TAYLORS and PFIZER prizes for best all-round students: Messrs. A. H. Walsh, B. Campbell; BRITISH DRUG HOUSES prize (pharmaceutics): Mr. R. B. Harrison; SQUIBB prize (pharmacognosy): Mr. J. R. Grogut; AYRTON SAUNDERS prize (physiology and pharmacology): Miss C. Martin; GLAXO prize (pharmaceutical chemistry): Mr. A. H. Walsh.

EIRE'S DRUG BILL

A Private Members' motion defeated in Dail

BY sixty-one votes to thirteen (Fine Gael members not voting), Dail Eireann, in Private Members' time on March 8, defeated a motion by Dr. N. Browne and Mr. J. McQuillan (National Progressive Democrats) asking the Minister for Industry and Commerce to reconsider his decision of July 1957 not to accept the recommendations of the Fair Trade Commission in regard to the supply and distribution of drugs. MR. P. A. BRADY (a member of Council of the Pharmaceutical Society of Ireland) said there had been a suggestion that chemists were profiteers. That was untrue. As a professional man the chemist realised and lived up to his obligations and duty to the public. He had to keep abreast of the great strides in modern medicine. Modern drugs, he said, were expensive, but that was mainly due to the years of research put into their development. However, they did become cheaper with quantity. He instanced several drugs and proprietary medicines that could be bought more cheaply in the Republic than in Northern Ireland or Britain, and added that, in the pharmaceutical business in the Republic, there was no profiteering. Apart from giving employment, the pharmaceutical industry in the Republic was producing fine articles at competitive prices.

Most Serious Problems

THE MINISTER (Mr. J. Lynch) said that, if the recommendations of the Fair Trade Commission were accepted as suggested in the motion, resale price maintenance would be permitted, and retail associations would also be permitted to circulate price lists with advice to members to adhere to them. MR. T. F. O'HIGGINS (a former Minister for Health) said he regarded the cost of drugs as being one of the most serious health problems facing individuals in the Republic. He did not subscribe to the attack, implicit in the motion, on the chemist. The price of drugs was part and parcel of a wider problem. One factor was the tariff imposed on drugs and medicines by the government two years ago. MR. B. CORISH, supporting the motion, thought the Minister had a function to investigate what exactly was the matter. The reason for the public's discontent, he stated, was that people believed they were being charged exorbitant prices.

When the motion had first been discussed in the House on March 1, said DR. BROWNE, he did not think there had been any doubt in the mind of anybody as to the concern amongst many members of the medical profession, as well as the ordinary public, at the apparently high drug bill. It was not clear who or what was responsible for the high prices. They must look for the cause amongst the manufacturers abroad as well as at home, amongst wholesalers and distributors, and amongst retail chemists. It was important to find out whether the cause was the resale price maintenance schemes operated by the Irish Drug Associa-

tion, the wholesalers, distributors, manufacturers and retail chemists. Stating that in spite of the condemnation of price maintenance by the Fair Trade Commission in 1956 it had not been discontinued by order of the Minister for Industry and Commerce, DR. BROWNE said that the Minister must bear some of the responsibility for the fact that the prices of essential drugs, medicines and proprietary preparations were "frighteningly high." It had been said that they were indulging in much the same practice in Great Britain, but DR. BROWNE said that the position in the Republic was more serious, because in Great Britain the sick were at least protected against the high prices by the health services. That protection was not available in the Republic. It seemed to him wrong that any impediment should be placed between the sick person and modern drugs. If the British Medical Association had been right in stating recently that the increased charges constituted an impediment in the doctor-patient relationship, then he maintained that most of the people in the Republic in the middle income group were faced with an almost insuperable impediment to efficient medical care. The high cost of drugs, he believed, must result in a high incidence of avoidable illnesses, in belated recovery, and probably in residual disability or incapacity. It seemed to him immoral that excessive profit should be made out of sickness, if true. There was no doubt that very considerable profits were being made in the drug trade. It was possible for the Minister to act so that Eire's drug interests bought in the best market.

Inefficient

The manufacturing pharmaceutical industry was in certain ways one of the most inefficient conceivable; but there was wasteful duplication and multiplication of effort. A variety of one-sided advertisements had no real value from the medical point of view. All those costs, plus overheads, were paid for by the consumer. In addition, there was also a multiplicity of small chemists shops all selling the same products at the same prices. There was no question of competition. "That is deliberately restricted by the rules of their association," DR. BROWNE said that, even if charges in the Republic were identical with British, they seemed to him exorbitant. If they were in excess of them then the whole position was outrageous. If the Minister ignored the situation—assuming the facts were correct—his attitude was irresponsible. It seemed to him a *non sequitur* that a fixed price would ensure quality. Why not let the industry fight it out and have competitive prices? The consumer appeared to be going to the wall, his interest subordinated to the maintenance of an inefficient, wasteful organisation. The Irish Drug Association would not let a chemist sell below the fixed price. The chemist must have 33½ per cent. even though, said Dr. Browne, 20–25 per cent. was, he understood, the margin in Northern Ireland.

Would the Minister consider establishing some kind of State Board with representatives of the chemists, the Department of Health, the Department of Industry and Commerce, and consumers, so as to try to make drugs available in the country at the cheapest rate? He suggested that, alternatively, some kind of Government subsidy should be made available.

A Scandalous Attack

MR. F. LOUGHMAN (president of the Council of the Pharmaceutical Society of Ireland) said that the relations between the medical profession and the pharmacist of Ireland in the past had been happy. In spite of what Dr. Browne had said, they had worked in the interests of the sick. It was indecent that, of all people, a member of the medical profession, a profession kindred to the pharmaceutical profession, should come along and make an atrocious and scandalous attack on an honourable trading profession.

DR. BROWNE: My loyalties are to the people.

On the question of price lists and fixed prices, MR. LOUGHMAN said: "There are no fixed prices. I can assure Dr. Browne that I am at liberty to sell anything I purchase at any price I choose, whether above or below the cost. There is an indication given as to the proper cost to charge for an item." There were in the list 17,000 proprietary items which pharmacists must have. Did Dr. Browne imagine that he could keep in his mind the names of those items, not to speak of their prices? Was it not reasonable to think that the suggested price should be there as an indication what to charge? The pharmacist could make up his own mind what he was going to charge the patient. "I think it is ridiculous to condemn the pharmaceutical people for having a price list and a list containing items." In Ireland, said Mr. Loughman, there was sufficient competition in the sale of medical articles to see that the people got a reasonably priced article. Apart from Dr. Browne's desire to attack the pharmacists of the Republic his attack had been the system of private enterprise. Competition in the Republic, so far as medicines were concerned, was as keen as in any other business. Despite what Dr. Browne had said, pharmacists were providing a good service.

THE MINISTER said that inquiries had established that, in the main, 90 per cent. of the range of drugs, proprietary preparations and toilet preparations on sale in the Republic equated more or less with the prices in Britain and the six counties. In 10 per cent. of products there was a differential which was being investigated. The Irish Drug Association's list of suggested prices in regard to basic drugs and chemicals was the same as the British list. Prices in the six counties were substantially the same, but showed minor divergencies. The minimal differences were in some cases in favour of the buying public in the Republic. Within the limited 10 per cent. range many of the articles were products of the United States.

DETERGENCY FACTORS

Lecture to cosmetic chemists

"THE Mechanism of Detergency" was the subject of an illustrated lecture given by Dr. D. G. STEVENSON at a meeting of the Society of Cosmetic Chemists of Great Britain in London recently. Dr. Stevenson commenced by giving a typical analysis of "soil" obtained by the solvent extraction of fabrics. Such analyses, he said, were difficult, especially of particulate matter such as carbon. It was also difficult to simulate "soil" exactly in the laboratory.

Dr. Stevenson described the "wetting-out" process, important in detergency, as the replacement of an air/solid interface by a solid/liquid interface, and gave equations relating the respective interfacial tensions and the contact angle at the air, solid, liquid junction. He mentioned Adam's theory, proposed in 1937, that the displacement of oil from a solid surface by a solution of a surface-active agent was due to a mechanism similar to that of the displacement of the air/solid interface in the wetting-out process. That, however, required the "soil" to be liquid and was demonstrated by soiling fabric with paraffin wax and noting the ease of removal in relation to the temperature of the washing solution. The nature of the solid, the polarity of the soiling material and their influence on the contact angle would also affect the ease of "soil" removal as exemplified in the difficulty of removing mineral oils from wool. The speaker then considered solubilisation in relation to detergency. It was generally known that molecules of surface-active agents grouped themselves in micelles when present in solution above a certain critical concentration, the value of which depended on the type of polar group present and its associated hydrocarbon chain. The micelles had the ability to take organic compounds into solution within the micelle of relatively non-polar compounds. In materials possessing relatively strongly polar groups, "mingling" occurred with those of the surfactant and the groups were orientated in a similar manner. However, it had been shown, said Dr. Stevenson, that detergency commenced at concentrations below the critical micelle concentration, and it was concluded that solubilisation was not of great importance in detergency. More recently emphasis had been placed on the influence of complex formation. The presence of free fatty acid with soap, or a fatty alcohol with sodium lauryl sulphate, gave lower interfacial tensions than would be obtained with any of the components by themselves. Lawrence had suggested that the detergent solution could penetrate the parallel rows of alcohol or fatty glyceride molecules in the solid state. When solid or liquid fatty alcohols or fatty acids were placed in solutions of sodium laurate or sodium lauryl sulphate and microscopically observed, myeline forms were apparent and the substance gradually reverted to a liquid crystalline phase which ultimately passed into solution. That was illustrated with a phase diagram of the soap, cetyl alcohol, water

system, which showed how the myeline forms might develop by reason of the concentration gradient in the vicinity of the alcohol giving rise to a membrane of highly viscous liquid crystalline phase, itself a result of the penetration

of the crystals by the soap solution. If both polar and non-polar materials were present in the oil phase, penetration by the detergent would lead to spontaneous emulsification. Because of osmotic effects produced by the presence of inorganic water-soluble soil on fibres partly covered by an oil film, water could pass along the fibre and form water droplets within the oil film.

EXPORTING TO RUSSIA

How a small firm may succeed

HOW does the small chemical firm set about securing orders from Russia? That question was posed and answered in a paper prepared by Mr. Edward Gurr (Edward Gurr, Ltd.) and read by Mr. W. K. Hall (Billingham division, Imperial Chemical Industries, Ltd.) at a recent north-east regional meeting of the Association of British Chemical Manufacturers. Mr. Gurr, who recently visited Russia and whose company is now exporting regularly to that country, gives the following advice: "First of all write to the Exports Promotion Department, Board of Trade, Lacon House, Theobald's Road, London, W.C.1. Tell them exactly what kind of chemicals or other products you want to sell to the Soviet Union and ask them for the name and address of the organisation in Russia which deals with the import of your particular products. Then write to that organisation. If you don't get a reply back from Russia within four or five weeks write again and keep on writing until you do get a reply. You will get one in the end, but it might take a little time to wear them down! When you get a reply, write again and say you will be in Russia soon and would like the pleasure of calling on them while you are there to discuss matters of mutual interest. Meanwhile make arrangements with your travel agents to visit Moscow and other places in the Soviet Union. Just tell them what cities you want to visit and they will make all the necessary arrangements for you. When you get the reply back from the importing organisation in Moscow and they say that they will be pleased to see you, acknowledge it and give the approximate date to within a few days, when you expect to call on them. If the reply is that they do not want to see you, and if you are still keen, go just the same and pay them a *surprise* visit. They are almost certain to see you, especially if you cannot speak Russian. They are particularly helpful to a foreigner who cannot speak their language. You need not worry about that, there will be an interpreter. When you get your interview with the Russian official, try gentle sales talk at first. If you find you are getting nowhere, and you will almost certainly get evasive answers, ease off, and say you had not really come to try and force a sale. . . . Then try and get the conversation round to personal and family affairs, just to show him or her that you too are only a human being the same as he or she is, but don't talk politics, of course. When you get back home write and thank your Russian host, and say that you hope that they will give you an opportunity of quoting when they are next

in the market for your products. If you do not get any inquiries within a few weeks write again, and keep on writing until you do. But the chances are that the inquiries will come in soon after you return from Russia. Then it is up to you to get out the quotations quickly. If you do not get the order, write again and ask why. If no reply, write again. Eventually someone has to give in. Mind it isn't you."

A report by Mr. Gurr on the pharmaceutical industry in Russia was published soon after his return to Britain (see *C. & D.*, October 15, 1960, p. 468).

WORLD TRADE

German Venture in Peru.—Five West German firms — Aasta-Werke, C. F. Boehringer & Soehne, Chemiewerk Homburg, Knoll and Luitpold-Werk—have formed a company in Lima, the Laboratorio Farmacéutico Peruano-Germano, with an initial capital of 3 million soles, to manufacture their respective products locally. The new pharmaceutical plant is expected to commence production in November 1961.

French Import Credits.—Importers in France have been informed of the release of credits for purchases of a number of products on which quantitative import restrictions still apply. Among the items listed were linseed oil, waxes, photographic equipment, castor oil, glycerin, medical plants and mustard seed for pharmaceutical uses, other raw materials for pharmaceutical uses, antibiotics and cortisone.

Call for Tariff Cuts.—A further reduction in customs tariffs by Common Market countries was advocated in Strasbourg recently by Mr. Robert Marjolin (vice-president, Common Market Executive Commission). Mr. Marjolin, who was addressing the "Little Europe" parliament, said that the revaluation of West German currency might cause prices in other countries to rise, since there would now be less competition from western Germany. A general reduction of tariffs would offset the inflationary impact of the monetary measures.

Australian Tax Concessions.—The Australian Government has announced an increase in tax-free allowance on expenditure to develop the overseas market as part of tax concessions to encourage the export of processed and manufactured goods. The Government also announced a reduction in the manufacturer's payroll tax. The rebate of payroll tax is to be given according to the increase in the value of exports over and above that in the base years 1958-59 and 1959-60.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 22: The main feature of the week was undoubtedly the announcement by alcohol manufacturers of a cut in price of the various grades of ETHYL ALCOHOL and METHYLATED SPIRIT.

As the price structure has been changed it is not possible to give an overall figure but the reduction in the case of ETHYL ALCOHOL (fermentation grades) is about twopence per proof gall. The reduction in the case of the synthetic grades, minimum terms, is twopence three farthings per proof gall. METHYLATED SPIRIT is lower by fourpence per bulk gall, in the case of 61 o.p. strength with similar adjustment for other grades.

The prices of CRUDE DRUGS appear to be marking time in the absence of any substantial orders. Sources in India report that this year's crop of prime Tinnevely SENNA LEAVES should be good and plentiful, but f.a.q. pods and leaves are expected to be scanty and arrive later than in previous years. Shipments of senna from the port of Tuticorin during February were:

	UK	U.S.	EUROPE
SENNA	Tons	Tons	Tons
LEAVES	16	9	72
PODS	—	—	30

The Dominican Republic is to launch a full scale SAFFRON-growing campaign. The nearest commercial producer of the plant is in Mexico where the plant is used for its oil content.

As forecast in last week's report a new schedule for QUINIDINE has been announced which reflects the 5 per cent. appreciation of the Dutch guilder. It would appear that QUININE prices are not being similarly advanced partly because a rise occurred a few months ago and partly, it is thought, because of the sale by United States authorities of stockpile material.

Among ESSENTIAL OILS, Bourbon GERANIUM eased by 20s. per lb. Formosan CITRONELLA continued weak with the spot price falling threepence per lb. to 7s. but spot LEMONGRASS added three-halfpence per lb. as origin were asking threepence per lb. more than in the previous week.

Pharmaceutical Chemicals

AMIDOPYRIN. — Minimum rate, 20s. 1d. per lb. with usual differentials for smalls.

AMPHETAMINE. — One to 10-kilo lots: BASE, from 140s. to 160s.; SULPHATE, 110s. to 130s. and *d*-AMPHETAMINE SULPHATE, 405s. to 420s.

AMYLOBARBITONE. — B.P.C. is 82s. 6d. per kilo for less than 25-kilo lots and SODIUM, B.P.C., 92s. 6d. per kilo.

ANTIMONY SALTS.—CHLORIDE SOL., B.P.C., 1934, carboys, 2s. 6½d. lb.; POTASSIUM TARTRATE, 7s. 6d. per lb.; SODIUM TARTRATE, 12s. 6d.

ATROPINE.—Rates for 16-oz. (500 gm.):

	per oz.	per kilo
	s. d.	s. d.
ALKALOID	39 0	1375 0
METHONITRATE ..	39 0	1375 0
METHYLBROMIDE ..	38 6	1357 0
SULPHATE	34 0	1198 6

BARBITONE. — Less than 25-kilo lots, 53s. 6d. per kilo. SODIUM derivative, 56s. 9d. per kilo.

BUTOBARBITONE. — B.P.C., 87s. 6d. per kilo in less than 25-kilo lots.

COCAINE. — 16-oz. lots, HYDROCHLORIDE, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CYCLOBARBITONE. — Less than 25 kilos: B.P.C., 73s. per kilo. CALCIUM, 85s. per kilo.

GLYCERIN. — Pharmaceutically pure (s.g. 1.2627):—

Annual purchases or spot lots of	Under 1 cwt.	1 cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Per cwt.	s. d.	s. d.	s. d.	s. d.	s. d.
DRUMS					
14-lb.	281 0	276 0	272 6	268 0	265 6
28-lb.	279 0	274 6	270 6	266 0	263 6
56-lb.	275 0	270 6	266 6	262 0	259 6
TINS					
1-cwt.	—	254 6	250 6	246 0	244 6
2½-cwt.	—	251 6	248 0	243 6	242 0
5-cwt.	—	—	247 6	243 0	241 6
10-cwt.	—	—	246 6	242 6	241 0

For 25 tons and upwards the price is from 265s. 6d. to 240s. as to containers. Bulk deliveries in tank wagons from 362s. to 237s. 6d. Technical grade glycerin s.g. 1.2627 is 5s. per cwt. less than above.

HEXOBARBITONE. — 25-kilo lots or over, 115s. per kilo.

HYDROGEN PEROXIDE. — 27.5 per cent. (by weight), £115 per ton; 35 per cent. £138 in returnable carboys.

HYPOPHOSPHITES.—Per lb.:—

	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
CALCIUM, B.P.C. ..	6 9	6 4	5 11
IRON, B.P.C. ..	13 9	13 3	12 9
MAGNESIUM ..	11 6	11 1	10 8
MANGANESE, B.P.C. ..	13 11	13 5	12 11
POTASSIUM, B.P.C. ..	9 3	8 10	8 5
SODIUM, B.P.C. ..	7 7	7 2	6 9

ICHTHAMMOL.—B.P. from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

IODIDES. — (Per kilo). Potassium, 50-kilo lots 19s. 3d.; SODIUM, 24s. 3d. for 25-kilo lots. AMMONIUM, 45s.

IODINE.—Resublimed in less than 50-kilo lots, 25s. 4d. per kilo. Minimum delivered rate for CRUDE is 17s. 4d. per kilo.

IODOFORM.—Powder (per kilo), 51s. 6d. in 50-kilo lots; less than 50-kilos, 53s. Crystals are 3s. per lb. more.

OLEIC ACID.—B.P. grade, £170 10s. per ton (£174 10s. single drum lots); 1 gall. tins 21s. per gall.

OXALIC ACID. — Scarce. Manufacturers' rates for 1-ton lots nominally £128 10s. per ton, delivered in free kegs.

PARACETAMOL. — Minimum 10-cwt., 11s. per lb.

PARALDEHYDE. — B.P. in 12-winchester lots, 2s. 10d. per lb. (6s. 3d. kilo); 10-gall. carboys, 2s. 4d.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 6d.

QUINIDINE.—For 15 kilos or 500 oz. or more:—

Home Trade	Per kilo	Per 100 oz.
	s. d.	s. d.
QUINIDINE	199 1	564 6
SULPHATE ..	260 8	739 1
ALKALOID cryst. ..	263 9	747 9
ALKALOID precip. ..	223 0	632 1
HYDROCHLORIDE ..	216 11	615 0
HYDROBROMIDE ..	221 9	628 9

Prices include tins and cases and free delivery U.K.

QUININE. — 1,000-oz. lots:—ALKALOID, 3s. 8½d. per oz.; SULPHATE, B.P., 1932, 2s. 5d.; SULPHATE, B.P., 1958, 2s. 8½d.; BISULPHATE, 2s. 5½d.; DIHYDROCHLORIDE, 3s. 5d.; HYDROCHLORIDE, 3s. 1½d.; ETHYL CARBONATE, 4s. 1½d.; HYDROBROMIDE, 3s. Quantities under 100 oz. plus threepence.

SILVER SALTS.—PROTEIN, 1-cwt. lots, 8 per cent., 36s. 3d. per lb.; VITELLIN, 68s. 6d.

SULPHUR.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; POWDER, 100 mesh, £25 10s.

SULPHACETAMIDE.—One-cwt. lots, 24s. 6d. per lb. SODIUM derivative, 30s.

SULPHAGUANIDINE. — One-cwt. lots, 11s. per lb.

SULPHANILAMIDE. — One-cwt. lots, 6s. per lb.

SULPHAPYRIDINE.—Five-kilo lots, 120s. per kilo.

SULPHATHIAZOLE.—One-cwt. lots, 16s. 9d. per lb.

Alcohol

BRITISH SPIRIT (fermentation grades) per proof gall:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.): where the minimum delivery is 2,500 proof gall. or over 3s. 9d.; 1,500, 3s. 10d.; 500, 3s. 11d. Prices are exclusive of duty and are for tank wagon lots. In 40–90-gall. drums there is a surcharge of threepence per proof gall.

Absolute Alcohol, 95.5 per cent., 74.5 o.p., from 4s. 1d. to 4s. 3d. for same quantities; the special high strength (99.9 per cent., 75.2 o.p.) from 4s. 5d. to 4s. 9d. (in drums). Doubly Rectified Alcohol (S.V.R.) 95.8 per cent., 68 o.p., from 3s. 11d. to 4s. 1d. R. R. Absolute Alcohol (re-rectified), 99.7 per cent., 75 o.p., 8s. per bulk gall. net (for 40-gall. drums).

Duty is £10 12s. 4d. per proof gall. SYNTHETIC GRADES (supplied only to buyers authorised by Customs and Excise to buy duty free) the 95 per cent. is from 3s. to 3s. 2d. and ABSOLUTE (99.5 per cent.), 3s. 3d. to 3s. 5d.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 5s. 4d.; 100 gall. and under 500 gall., 5s. 8d.; 40 gall. and under 100 gall., 6s. 0½d.; 10 gall. and under 40 gall., 6s. 6½d.; 5 gall. and under 10 gall., 7s. 0½d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 1½d.; 6s. 5½d.; 6s. 10d.; 7s. 4d. and 7s. 10d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 6s. 9d. (tank wagon) for 500 gall. to 8s. 1½d. (10 gall. drums) for 64 o.p.

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 6½d.; 500 gall. in 40-gall. drums, 5s. 8½d.; 100 gall. and under 500 gall. (in drums), 6s. 0½d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 11d.; 5 gall. and under 10 gall., 7s. 5d.

Mineralised methylated spirit: Strength 64 o.p., in one delivery, 100 gall. and under 500 gall., 6s. 0½d.; 40 gall. and under 100 gall., 6s. 5d.; 10 gall. and under 40 gall., 6s. 11d.; 5 gall. and under 10 gall., 7s. 5d.

Terms.—Deliveries free and carriage paid on returned empties; net cash.

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and 18 Merrion Square, Dublin. Tel. 65751/2.



Crude Drugs

ACONITE.—Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 15s. 6d. per lb. in bond; shipment, 14s. 7½d., c.i.f.

ALOES.—Cape primes, spot, 180s. per cwt.; shipment, 157s. 6d., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. 6d. duty paid. PERU: Spot, 9s. in bond. TOLU (genuine as imported) nominal; B.P., 12s. 3d.

BELLADONNA.—LEAVES, 1s. 9d. per lb., spot. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

BENZON.—Sumatra block, spot £22 to £30 as to quality.

BUCHU.—Spot rounds, 1958–59 crop, 4s. 9d. per lb.; new crop for shipment, 4s. 2d., c.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSAICUMS.—Chinese, on stalk, 150s., duty paid; Ethiopian, 200s.

CARDAMOMS.—Aleppy greens, spot, 13s. 9d. per lb.; shipment, 12s. per lb., c.i.f. Seeds, shipment, 21s., c.i.f.

CASCARA.—Spot, 1960 peel, 275s. per cwt., shipment, 270s., c.i.f.

CASSIA.—*Fistula*, 100s. per cwt.; *lignea* (whole), spot 420s., duty paid.

CHAMOMILE.—Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK.—Thin natural, 2s. 9d. per lb., as to holder.

COCHINEAL.—Black-brilliant, 11s. 6d. per lb., silver-grey 10s., spot; Peruvian silver-grey to arrive 4s. 6d.

COCILLANA.—Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

GUM ACACIA.—Kordofan cleaned sorts, 152s. 6d. per cwt., spot; new crop, March–April shipment, 134s. 6d., c.i.f.

HENNA.—Indian, spot, 87s. 6d. per cwt.; new crop for shipment, 62s. 6d., c.i.f.

HONEY.—Australian light amber, 100s. to 102s. 6d. per cwt. and medium amber 95s. to 100s. Argentine, 105s. to 110s.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

KARAYA.—No. 1 gum, spot 325s. per cwt. nominal; No. 2, 220s.

LANOLIN.—ANHYDROUS B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL.—Spot, 3s. 3d. per lb.

LINSEED.—Whole, 70s. to 75s. per cwt.; crushed, 105s.

LIQUORICE.—Natural root: Persian on the spot, 40s. per cwt.; other varieties cleared. Anatolian decorticated, 175s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 8s. 9d.; shipment, 8s. 3d., c.i.f., per lb. Dutch not offering.

MACE.—Whole pale blade, 23s. 6d. per lb. spot.

MENTHOL.—Chinese: spot, 86s. per lb., duty paid; shipment, 77s. 6d., c.i.f. Brazilian, 53s., in bond; shipment, 52s., c.i.f. Formosan, 54s., in bond.

MERCURY.—About £69 per flask of 76-lb.

NUTMEGS.—West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 3d.; defectives, 6s. 9d.

NUX VOMICA.—Indian quoted at 80s. per cwt., c.i.f., subject to export licence; spot cleared.

ORANGE PEEL.—Spot: Sweet ribbon 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 3d.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PAPAIN.—Tanganyikan, 12s. per lb., c.i.f., for grade one; spot 15s. Ceylon all grades nominal.

PEPPER.—White Sarawak, spot, 3s. 9d. per lb.; shipment, 3s. 7d., c.i.f. Black Sarawak, spot, 3s. 1d.; shipment, 2s. 11½d., c.i.f. Black Malabar, 420s. per cwt. spot, and 352s. 6d., c.i.f.

PEPPERMINT.—Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 190s. per cwt., spot; shipment not quoted. *Peltatum*, 375s.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLAIA.—Spot nominal; shipment, 122s. 6d. per cwt., c.i.f.

RHUBARB.—Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA.—Jamaican native red spot, 2s. 9d. per lb.; shipment, 2s. 3d., c.i.f., nominal.

SEEDS.—(Per cwt.). ANISE.—Spanish, 200s., duty paid. CARAWAY.—Dutch quiet at 165s., duty paid. CELERY.—Indian, 150s., spot; shipment, 138s., c.i.f. CORIANDER.—Moroccan firmer at 120s., duty paid; shipment up to 119s., c.i.f. CUMIN.—Indian, 180s., spot; Iranian, 180s., duty paid. DILL.—Indian, 100s., spot; shipment, 77s. 6d., c.i.f. FENNEL.—Chinese, 105s., duty paid; Indian, 115s. FENUGREEK.—Moroccan dealer for shipment, 57s., c.i.f., now quoted, spot 70s., duty paid. MUSTARD.—English, 62s. 6d. to 90s. according to quality.

SENEGA.—Spot, 21s. 6d. per lb.

SENNA.—*Tinnevely* LEAVES, prime No. 1 cleared; f.a.q. No. 3, 9d. hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* Pods: manufacturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; new crop hand-picked, 4s. 6d. to 6s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

SLIPPERY ELM.—Bark, 3s. 6d. lb. landed value.

SQUILL.—White 87s. 6d. per cwt., spot.

STRAMONIUM.—Indian LEAVES 60s. per cwt., spot. Dutch 0·5 per cent. alkaloid 93s., c.i.f.

STYRAX.—Spot, 28s. 6d. per lb., shipment, 26s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 3d. per lb. Shipment nominal. Angostura 11s.

TRAGACANTH.—No. 1 ribbon, £145 to £150 per cwt. No. 2, £135 to £140.

TURMERIC.—Madras finger on spot is 105s. to 110s. per cwt.; new-crop for April–May shipment, 86s. 6d., c.i.f., quoted.

VALERIAN ROOT.—Spot: Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 22s. 3d.; 1-cwt., 22s. 6d.; 56-lb., 22s. 9d.; small quantities, 23s.

WAXES.—(Per cwt.). BEES.—Dar-es-Salaam, spot, 460s.; shipment, 445s., c.i.f., Abyssinian, spot 390s. in bond; shipment 385s., c.i.f. Sudanese, spot, 420s.; shipment, 360s., c.i.f. CANDELILLA, spot, 475s. CARNAUBA, fatty grey, spot, 490s.; shipment, 450s., c.i.f.; prime yellow, spot, 710s., shipment, 660s., c.i.f.

WITCH HAZEL LEAVES.—Spot cleared; origin not offering.

Essential and Expressed Oils

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE.—Chinese 7s. 4½d. per lb., spot; shipment, 7s. 1d., c.i.f.

BERGAMOT.—Spot, from 72s. 6d. per lb.

BOIS DE ROSE.—Brazilian, 14s. 6d. per lb. on the spot and 14s. 3d., c.i.f.

CADE.—Spanish, 3s. 6d. per lb. for drum lots.

CALAMUS.—Spot, 56s. 6d. per lb.

CAMPHOR, WHITE.—Chinese, 1s. 6d. per lb. in bond; 1s. 5d., c.i.f.

CITRONELLA.—Ceylon, spot, 6s. 7d.; shipment, 6s. 2d. per lb., c.i.f. Formosan, spot, 7s., in bond; shipment, 6s. 7½d., c.i.f.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CUBE.—Small spot supplies of imported are 65s. per lb.; English, 90s.

CUMIN.—Imported oil, 90s. per lb.; English-distilled, 120s.

DILL.—Imported, 38s. 6d. per lb., spot.

GERANIUM.—Bourbon, 145s. to 150s. per lb. on the spot; Algerian, 140s.

LAVANDIN.—Spot from 7s. per lb. for original drums.

LAVENDER.—From 17s. to 50s. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 12s. per lb. for original drums.

LEMONGRASS.—Spot, 15s. 6d. per lb., and shipment, 15s. 3d., c.i.f.

LIME.—West Indian distilled, 50s. per lb. on the spot.

NUTMEG.—Imported B.P. oil is from 50s. to 90s. per lb. as to source. English-distilled, 140s.

OLIVE.—Spot, 19s. 3d. to 20s. 3d. per gall. in drums ex wharf; shipment, £190–£205 per 1,000 kilos, f.o.b. Spanish port.

ORANGE.—Spot quotations of sweet oil include Floridan at 3s. 6d. per lb.; West Indian, 3s. 6d.; Israeli, 7s. 6d., nominal; Californian, 5s. 3d. to 7s. 6d.

OTTO OF ROSE.—Bulgarian, 400s. per oz. Turkish, £350 per kilo.

PALMAROSA.—Spot, 33s. per lb.; shipment, 30s., c.i.f.

PATCHOULI.—Penang is 40s., duty paid and 37s. 6d., c.i.f., per lb.

PETITGRAIN.—Paraguay, 18s. 3d. per lb., spot; shipment, 17s. 6d., c.i.f.

ROSEMARY.—Spanish is 7s. 6d. per lb. on the spot for best quality.

RUE.—Spanish is 25s. per lb. spot.

SANDALWOOD.—Mysore 155s. to 160s. per lb. East Indian 152s. 6d.

SPEARMINT.—American oil on the spot 46s. 6d. per lb.

TANGERINE.—From 26s. to 28s. per lb. as to quality.

THYME.—B.P.C. oil 9s. 6d. per lb., on the spot.

YLANG YLANG.—Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, MARCH 21: The price of AMMONIUM BICARBONATE will be raised a ½-cent. on April 1 to 7½ cents a lb. and FURFURYL ALCOHOL reduced by a cent to 19½ cents per lb. MENTHOL firmed up to make the Brazilian \$8·10 and Formosan \$8·15 as against a previous \$8 a lb. for each. SULPHANILAMIDE was advanced 25 cents to \$1·75 a lb. for the N.F. grade. TAMARINDS were lower at 20 cents a lb., down ½-cent. Californian LEMON OIL prices were raised by 45 cents a lb. Bourbon VETIVERT gained 50 cents to \$17 a lb. GRAPEFRUIT was lower at \$2·90 a lb., down 35 cents.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," March 1
For photographic chemicals (1)

CINEPHEN, 812,021, by Ilford, Ltd., Ilford,
Essex.

For shampoos, skin-cleansing preparations, soaps,
shaving soaps; after-shaving lotion, talcum powder,
bath cubes, bath salts and bath oils, all being
non-medicated toilet preparations; and cosmetic
preparations in stick form, for use in
covering skin blemishes (3)

MEDAC, 807,756, by Genatosan, Ltd., Lough-
borough, Leics.

For perfumes, toilet preparations (not medicated),
cosmetic preparations and soaps (3)

COLDSTREAM, B808,827, by Florogen, Ltd.,
Mitcham, Surrey.

For perfumes; toilet preparations, none being
creams or lotions; cosmetic preparations, denti-
frices, depilatory preparations, sachets for use in
waving the hair, soaps and essential oils (3)

ENSGN, 809,077, by County Laboratories,
Ltd., Brentford, Middlesex.

For perfumes; and lipsticks, soap, bath cubes,
bath salts, toilet water, dasting powder, talcum
powder, and bath oils, all being non-medicated
toilet preparations; all containing rose extracts
(3)

ROYAL ROSE, B772,145, by Lcntheric, Ltd.,
London, W.1.

For toilet preparations, none being toilet lotions;
cosmetic preparations, dentifrices, depilatory pre-
parations, toilet articles (not included in other
classes), sachets for use in waving the hair, soaps
and essential oils (3)

HEED, 809,354, by County Laboratories, Ltd.,
Brentford, Middlesex.

For shaving lotions and talcum powder, all being
non-medicated toilet preparations; and non-sapon-
aceous shampoos (3)

DEVICE, 810,094, by Rexall Drug Co., Ltd.,
Loughborough, Leics.

For soaps and detergents (not for use in industrial
and manufacturing processes); cleaning, polishing,
scouring and abrasive preparations, but not
including toilet soap (3)

AURA, 811,121, by Lever Brothers, Port Sun-
light, Ltd., Port Sunlight, Ches.

For all goods, but not including oils (3) and
veterinary and sanitary preparations; disinfect-
ants; deodorants and air-purifying preparations;
insecticides; insect-repelling preparations for per-
sonal use; and preparations for killing weeds and
destroying vermin (5)

Device with word PUFFIN, 811,928-29, by
Proprietary Pressure Packages, Ltd., Birming-
ham.

For liquid detergents, not for use in industrial
processes or in the course of manufacture (3)

CENTIGLEME, 812,793, by Walkers (Century
Oils), Ltd., Stoke-on-Trent, Staffs.

For liquid soaps (3)

CENTIKLENE, 812,794, by Walkers (Century
Oils), Ltd., Stoke-on-Trent, Staffs.

For preparations for removing resin or resinous
matter from the skin (3)

CENTISOLVE, 812,795, by Walkers (Century
Oils), Ltd., Stoke-on-Trent, Staffs.

For perfumes; toilet preparations (not medicated);
cosmetic preparations; dentifrices, depilatory pre-
parations; toilet articles; sachets for use in waving
the hair; preparations for dressing and setting the
hair; soaps and essential oils (3)

HAVOC, 812,972, MANSARD, 813,075, by
Goya, Ltd., London, W.1.

For preparations for tinting the hair (3)

WELLATINT, 813,627, by Wella Rapid, Ltd.,
London, N.W.1.

For detergents (3)

SCREFF, 814,318, by Middleton Plastics, Ltd.,
Cheltenham, Glos.

For pharmaceutical, veterinary and sanitary sub-
stances; medical and surgical plasters, materials
prepared for bandaging; menstrual and catamenial
appliances; disinfectants; preparations for killing
weeds and destroying vermin (5)

GUS, 799,960, by Great Universal Stores, Ltd.,
Manchester, 12.

For pharmaceutical preparations used to reduce
the cholesterol content in the blood (5)

KLESTROL, B807,643, by Denver Chemical
Manufacturing Co., Stamford, Connecticut,
U.S.A.

For pharmaceutical preparations and substances
(5)

LARINE, 804,035, by Ed. Geistlich Söhne
A.G. für Chemische Industrie, Wölhusen, Swit-
zerland. KENERYL, 805,184, by Pharmacy
Products (Overseas), Ltd., London, W.1. OVA-
NID, 808,601, by G. D. Searle & Co., Skokie,
Illinois, U.S.A. HAYFEX, 810,415, by Richard
Campbell Feather, Twickenham, Middlesex.
RULIN, 811,844, by London Essence Co., Ltd.,
London, S.E.5.

For remedies, chemical products for medicinal
purposes, drugs and pharmaceutical preparations
(5)

OMNISEDAN, 811,534, by Etcpha, A.G.,
Schaan, Liechtenstein.

For deodorants; preparations for purifying the
air; insect repelling and destroying preparations;
fungicides; bactericides and germicides (5)

AIRWICK, 805,468, by Airkem, Ltd., London,
W.1.

For all goods (5)

ELEPARON, 806,866, by Luitpold-Werk
Chemisch Pharmaceutische Fabrik, Munich 25,
Germany. LYGAL, 810,971, by Desitinwerk
Carl Klinke, G.m.b.H. Hamburg-Othmarschen,
Germany. STERETS, 813,087, by The British
Drug Houses, Ltd., London, N.1. TESTI-
COMP, 813,876, by Lovens Kemiske Fabriks
Handelsaktieselskab, Ballerup, nr. Copenhagen,
Denmark.

For medicated preparations in ointment or paste
form, and being for human use for repelling in-
sects and for the treatment of insect bites (5)

NIPP, B807,159, by Cupal, Ltd., Blackburn,
Lancs.

For medicated beverages and preparations for
making such beverages, all containing fructose (5)

FRUCTOZONE, 802,983, by Wellesbourne
Restaurant, Ltd., Wellesbourne, Warwick.

For chemical substances for use in agricultural
and horticultural industries (5)

WARDOL, 807,752, by Leek Chemicals, Ltd.,
Leek, Staffs.

For pharmaceutical preparations for geriatric use
(5)

GEROIDAC, 807,794, by Winthrop Group,
Ltd., Surbiton, Surrey.

For pharmaceutical preparations in tablet form
for the treatment of lumbar ailments (5)

LOBAK, B808,307, Winthrop Group, Ltd.,
Surbiton, Surrey.

For pharmaceutical preparations and substances
for human and veterinary use (5)

ANABOID, 808,441, by Winthrop Group, Ltd.,
Surbiton, Surrey. THRODREX, 810,701, by
Phillips, Scott & Turner, Ltd., Newcastle-on-
Tyne, 1.

For scientific apparatus and instruments, and
photographic, cinematographic and optical appa-
ratus and instruments (9)

UNIFAX, 807,015, by Ronald Hadingham,
London, W.1.

For deodorants (5)

STAG, B810,093, by Rexall Drug Co., Ltd.,
Loughborough, Leics. FRESH BREEZE,
810,789, by Petama Polishes, Ltd., Ipswich,
Suffolk.

For pharmaceutical preparations for the treatment
of the skin (5)

SKINDREX, 810,700, by Phillips, Scott &
Turner, Ltd., Newcastle-on-Tyne, 1.

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for February was 208.1

Cost		Item	Retail			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
33	500 ml.	Acid. hydrochlor. P.II. (8)	—	1 1	0 4	—
36	500 ml.	Acid. hydrochlor. dil. P.II. (9)	—	1 2	0 4	—
42	500 ml.	Acid. nitric, B.P.C. P.II. (8)	—	1 4	0 5	—
39	500 ml.	Acid. sulph., B.P.C. P.II. (8)	—	1 3	0 4½	—
30	500 ml.	Acid. sulph. dil., B.P.C. P.II. (9)	—	0 11½	0 3½	0 1
102	500 g.	Collod. acid. salicyl, B.P.C. ...	—	2 8	0 9½	0 1½
186	500 g.	Crem. antazolin., B.P.C. '54 ...	—	6 0	1 10	0 3
60	100 ml.	Eucalyptol ...	—	—	2 6	0 4
39	25 g.	Ext. bellad. sicc. S.I. (5)	—	—	5 6	0 9½
165	500 ml.	Glycer. plumbi subacet., B.P.C. '54 P.I. (9)	—	5 4	1 7	0 2½
60	500 g.	Hexamina, B.P.C. ...	—	1 11	0 7	0 1
102	500 ml.	Methyl. salicylas ...	—	3 3	1 0	0 1½
28	1 oz.	Neb. isoprenalin. sulph., B.P.C. ...	—	—	3 6	0 6
72	25 g.	Ol. cari, B.P.C. ...	—	—	—	1 4
69	25 g.	Ol. cassiæ, B.P.C. '49 ...	—	—	—	1 6
62	1 pt.	Ol. olive ...	—	1 9	0 6½	0 1
36	5 g.	Papaverin. hydrochlorid. S.I. (4)	per	gr.	0 1	—
150	1 gl.	Paraffinum liq. ...	1 11	0 6½	0 2	—
26	500 ml.	Paraffinum liq. lev. ...	2 11	0 10	0 3	—
41	500 g.	Pasta zinci et acid. salicyl. ...	—	1 4	0 5	0 1
76	100 ml.	Pig. iodoform. co., B.P.C. '54 ...	—	—	3 3	0 6
42	100 g.	Piper. nigr. pulv., B.P.C. '49 ...	—	—	1 9	0 3
99	500 g.	Pulv. tragacanth. co. ...	—	3 2	0 11½	0 1½
216	500 g.	Sodii aminosalicylas ...	—	6 11	2 1	0 3½
32	100 g.	Sodii nitris, B.P.C. ...	—	—	1 4	0 2½
189	25 g.	Strychnin. hydrochlor. S.I. (4)	per	gr.	0 1	3 10
54	500 ml.	Syr. rheados, B.P.C. '49 ...	—	1 9	0 6½	0 1
53	25 g.	Theophyllin. ct sod. acet., B.P. '48	—	—	—	1 1
81	500 ml.	Tinct. arnicæ flor., B.P.C. '49 ...	—	2 7	0 9½	0 1½
183	100 g.	Tragacanthæ pulv. ...	—	—	7 8	1 2
90	500 g.	Ung. capsici, B.P.C. ...	—	2 11	0 10½	0 1½
112	2 kg.	Zinci oxidum ...	3 2	0 11	0 3½	—
34	100 g.	Zinci stearas ...	—	—	1 5	0 2½
Cost		Tablets, retail (in containers)				
d.	per					
78	100	Erythritvl tetrantit. dil., B.P.C. '49 gr. ½ P.I. (13)				

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.

When your customers ask for 'vitamins'...

For general purposes

for nutritional support in convalescence or because of prolonged ill-health, BEMAX is particularly recommended.

For BEMAX contains a high proportion of protein (27%), vitamins of the B-complex and E, together with important minerals such as iron. Easily digested and readily taken with a variety of foods, it is invaluable at all age levels.

BEMAX

Packs of 5, 10 and 20 ozs.

For children and the elderly

and for the febrile, VITAVEL SYRUP is specially valuable. It is water-miscible and has a most attractive taste, readily acceptable to children and others who dislike fish-liver oils. It is a combination of the important vitamins, A, B₁, C and D in an orange-flavoured syrup base.

VITAVEL SYRUP

*Basic price to N.H.S. 6 fl. ozs. 2/6,
40 fl. ozs. 16/-.*

For pregnancy and lactation

The special nutritional needs of the pregnant and lactating mother have been met in PREGNAVITE which has found favour with the medical profession for more than 20 years. This preparation supplies just those vitamins and minerals which are needed in increased amounts during pregnancy and lactation, in the quantities estimated to be needed in addition to normal dietary supplies.

PREGNAVITE

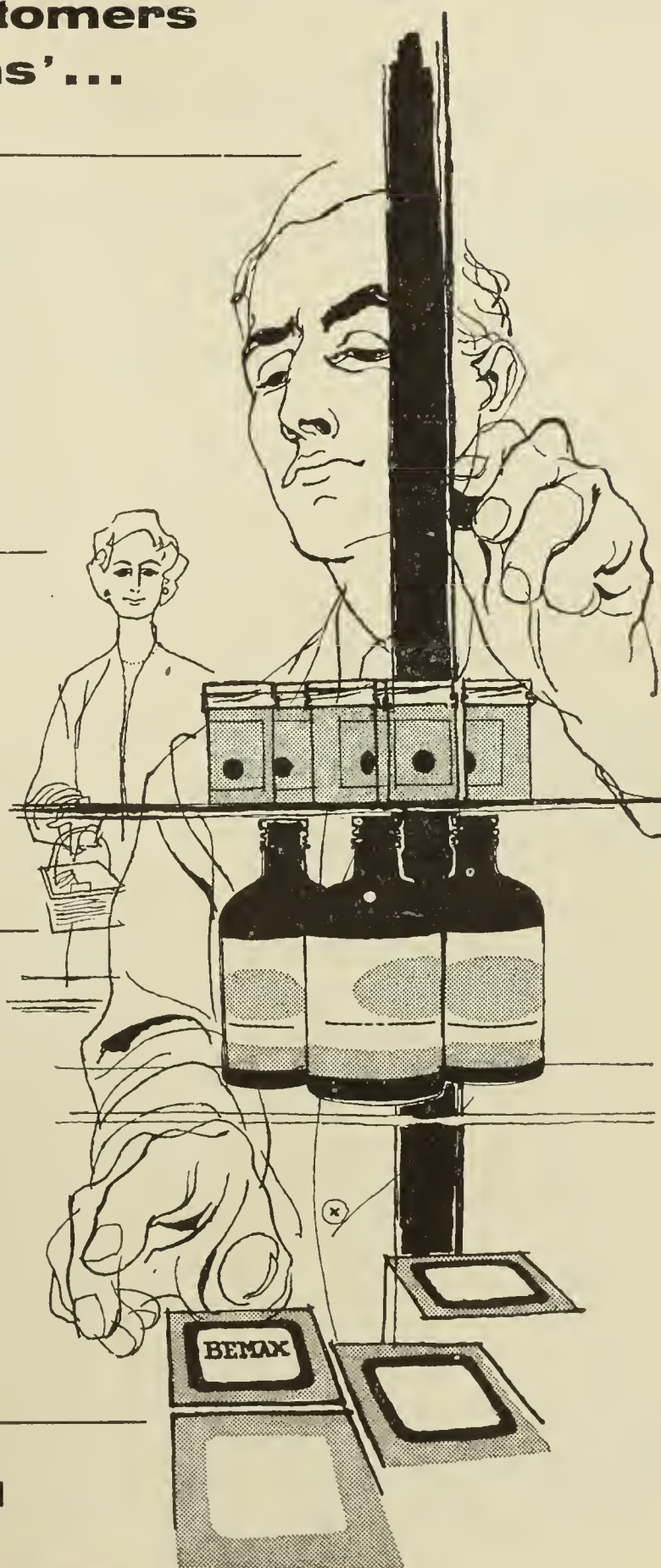
*Packs of 60, 120 and 1,000.
Basic price to N.H.S. 1,000 tablets 32/9.*

**... recommend
a product from**



VITAMINS LIMITED

(DEPT. A.A.5.)¹ UPPER MALL, LONDON, W.6.



*BIG TURNOVER INCREASE

for Three Hands & Evan Williams brands

*UNIQUE FEATURES

of extensive new factory

For some considerable time Three Hands Products Limited, the well known manufacturers of disinfectant, toilet rolls, dishwasher and other household products have been planning a new factory, laboratories and office block. The Company currently operates from Head Offices in Edmonton and factories and warehouses in Tottenham and Edmonton. Despite the extensions made to existing premises from time to time to provide for the rapid growth of the business during the post war years, the Company's existing premises have become inadequate for current needs and the planned future expansion of the business.

Accordingly the Company acquired a large site at Porters Wood, St. Albans and on Friday January 20th 1961, construction work on the new premises was officially started when the first sod on the new site was cut by Mr. Merrick Edwards, the son of the Chairman and Managing Director Mr. L. T. Edwards (who himself founded the Company in 1932) in the presence of Directors, senior executives of the Company, many long serving employees and the Company's Architects and Contractors.

During the ceremony Mr. Edwards reminded those present of the tremendous record of growth of the company from the days when its employees could be counted on the fingers of one hand to its present position as the leading national manufacturer in its field, and forecast that the move to the new premises would herald even greater expansion in the future.

The new building has been planned to meet the special needs of an expanding business and has many unique features. For example, the factory will be single storey, without any break in floor space and will have the largest reinforced concrete framed single span in the U.K.

Another unique feature will be the single uninterrupted span of plate glass which has been designed by leading glass manufacturers to cover the entire front elevation of the vast entrance hall and first floor reception lounge.

Three Hands has, of course, been rapidly extending its activities in recent years not only within the household products field but also into toiletries by the acquisition of Evan Williams Beauty Aids Ltd., and into Pharmaceuticals through its associated company, L. T. Edwards Pharmaceuticals Ltd. In this connection, it is interesting to note that a recent statement by the Chairman referred to the fact that turnover of the Group is currently running at 25% above the level of last year. With 10 months of the Company's current financial year gone the turnover for the Evan Williams range of brands is the highest in the Company's history and the turnover of Three Hands brands is also at its highest level ever. The Company's declared dividend policy of not more than 6% for the next four or five years is indicative of the Group's intention to plough back all available resources for continued expansion.



Three Hands Products Ltd.



MEDICALS

OVAL TABLETS

RECTANGULAR TABLETS

VIALS

RIBBED OVALS

EMERALD POISONS

DROPPERS

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JARS

PANELS

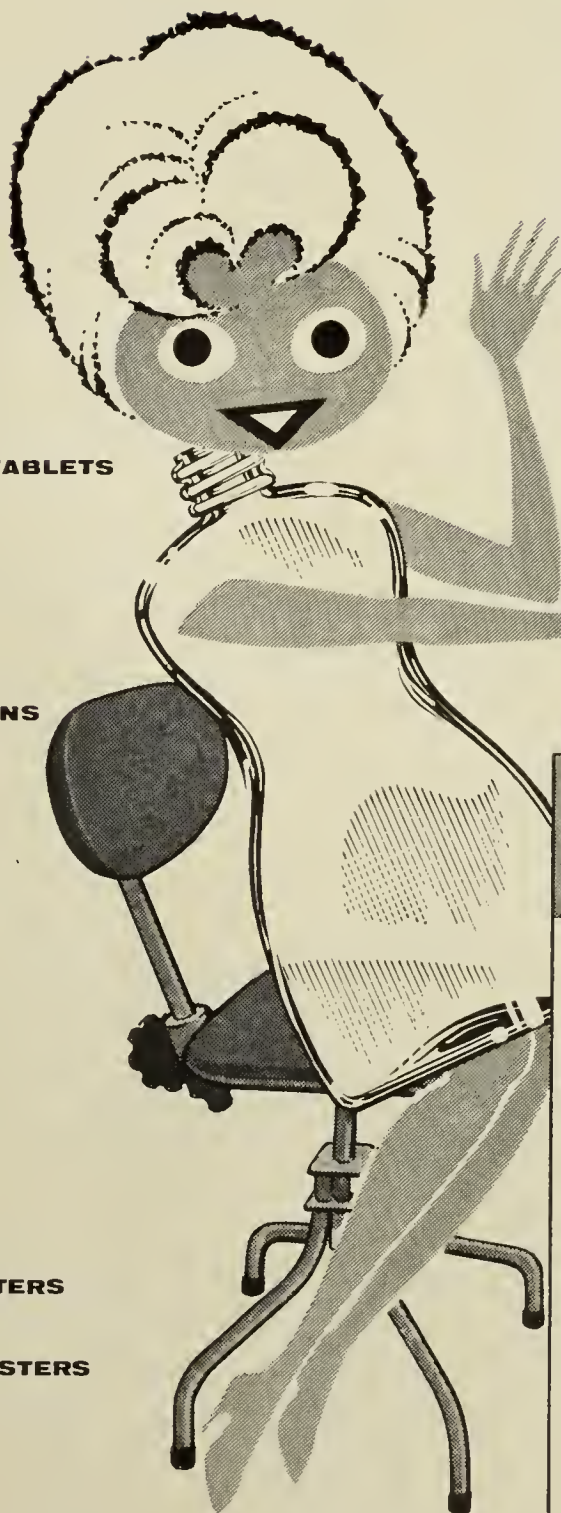
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POISON WINCHESTERS

POWDERS



Miss Beatson's VITAL STATISTICS

A few facts about
Beatson, Clark which you may
care to think over when
you next order bottles:

210 years' experience of
glass manufacture.

Hundreds of standard
lines stocked.

Millions of containers
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Bottles for busy chemists...

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Solid, Steady Progress

A steadily widening demand continues to
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Powerful Advertising Programme

The successful advertising programme for
OKASA is being consistently maintained on
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newspapers and magazines as the Daily
Express, Sunday Express, Punch, T.V. Times,
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TRADE PRICE 16/4

TRIAL SIZE (50 TABLETS) 14/9
TRADE PRICE 9/10

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**New Type
Adjustable
Plastic
Three-Point
Mask**

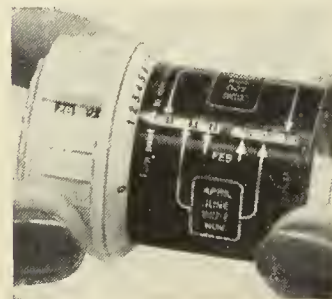
TYPE 2

Conforms to National Health
Drug Tariff Specification

- Adjustable Patent stiffeners seal nose at these points.
- Economy. Life of mask is indefinite.
- New filters quickly fitted by press studs.
- Flesh-tinted plastic body.
- Invaluable to all members of the community against smoke and dust and particularly to bronchial subjects.

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**THE
C.D. (CONCEPTION DAYS)
INDICATOR**

*A Precision
Calculator*

Family planning is managed most simply and conveniently by the computation of the mother's fertile and infertile days. Recent research has shown that this can reliably be done by the correct application of the Ogino-Knaus theory.

The C.D. Indicator is now available to ensure its correct application by the least mathematically minded of women.

The C.D. Indicator, designed and manufactured in Switzerland, is a small precision calculator. It can be adjusted simply and immediately to show the fertile period in the current month for each woman, according to her individual menstrual characteristics. It excludes the possibility of mathematical error.

The C.D. Indicator is used and recommended by gynaecological authorities throughout the world. It does not offend against any Church teaching.

Full literature and trade particulars available on request to Dept. M.P.1, C.D. Indicator Advisory Bureau, 109 New Bond Street, London, W.1.

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a skin prophylactic specially formulated for the prevention of skin irritations caused by pressure, friction & external irritants.

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In 1½ oz. collapsible tubes. Retail price 2/10 per tube.
Trade price 19/- per dozen plus 4/9 Purchase Tax.

ORDER FROM YOUR WHOLESALER

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Fully Automatic Exposure

NO SETTINGS · NO CALCULATIONS



THE NEW

auto flash super 44

FOR BOTH COLOUR AND BLACK & WHITE 127 FILMS

**Two Cameras in One - an Automatic Camera for Day
and a Flash Camera for Night**

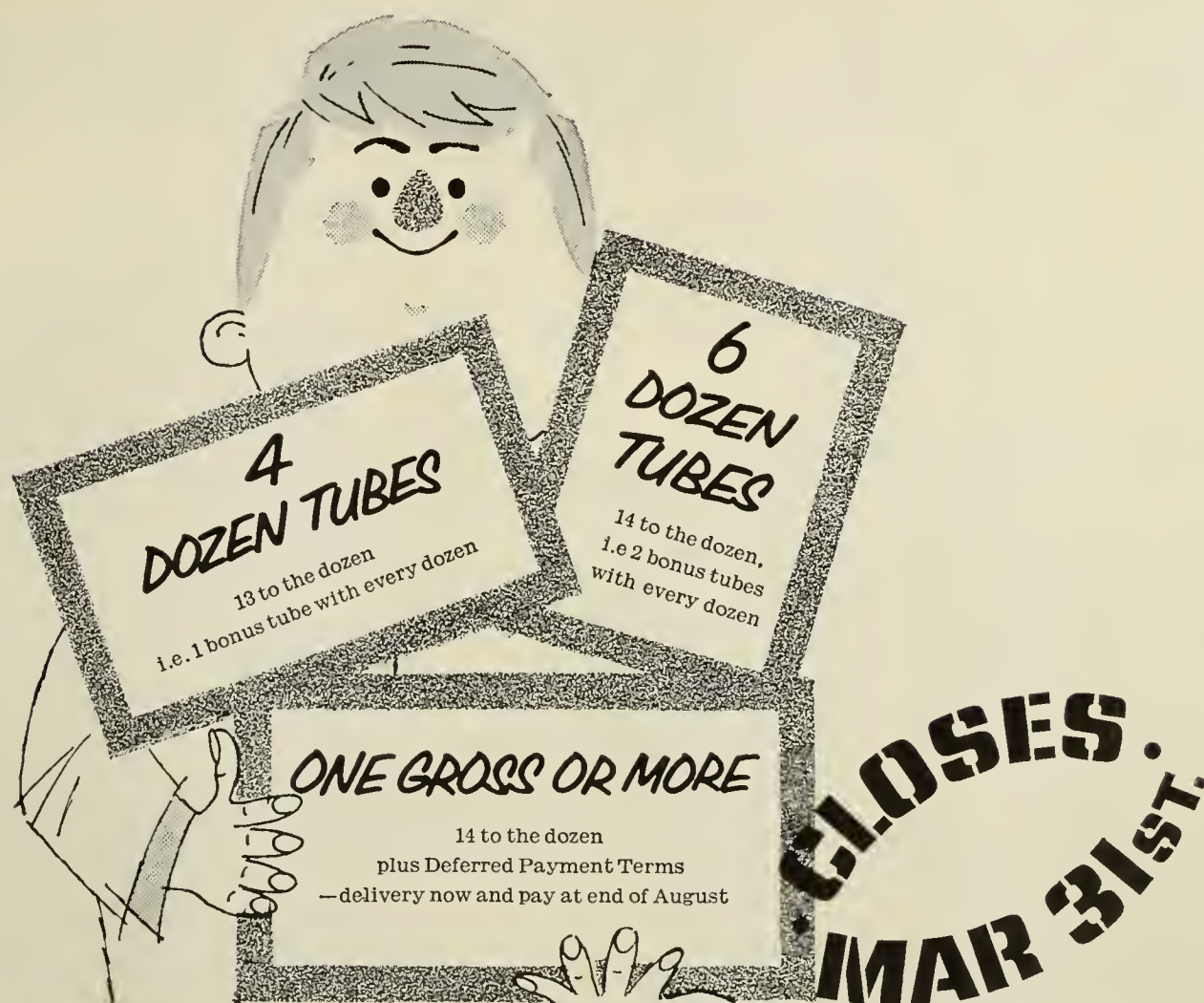
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COMPLETE WITH CASE
& FLASH REFLECTOR



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'Marzine'

TRADE MARK

3-WAY BONUS TERMS

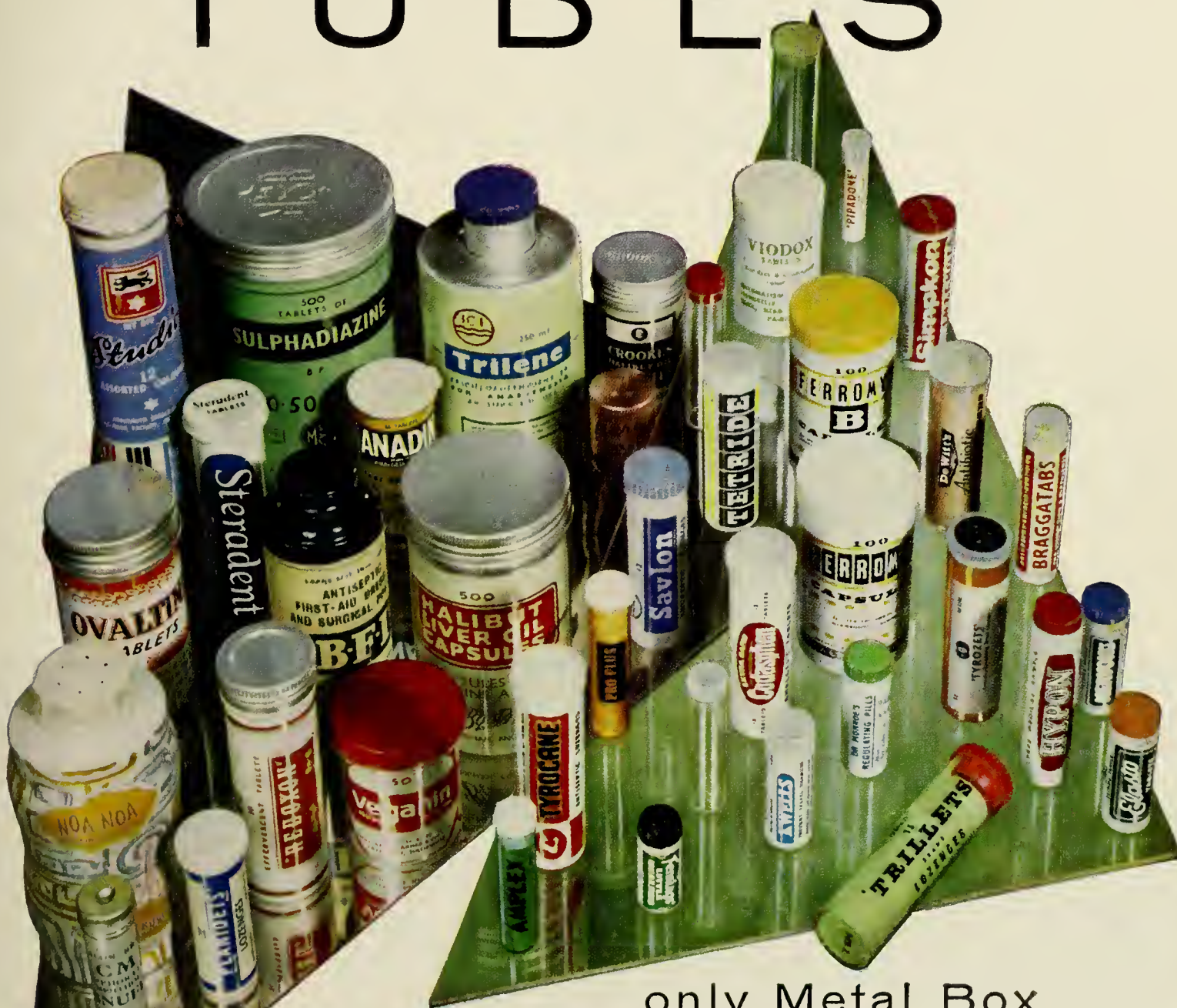
Have you ordered enough 'MARZINE' to see you through the whole Summer travel season. There are only a few days left for ordering if you want to make sure of *extra* profit on all the 'MARZINE' you sell. Remember, you'll need more stock to meet the growing demand for 'MARZINE' stimulated by the intensive advertising which will appear this Summer.

All the above bonus orders for 'MARZINE'
will be carriage paid



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD. LONDON

metal and plastic
TUBES



only Metal Box
offers a range so *complete!*

Metal Box metal and plastic tubes are available in a quite exceptional range of shapes and sizes, with a wide variety of closures each designed to keep the contents in thoroughly good condition. All—up to 34 fluid ounces in capacity—are light (*lower freight charges*), virtually unbreakable (*no breakage claims*) and can be decorated in superb

multicolour printing (*for increased sales appeal*).

Metal Box also offers freely three unrivalled services: a research service to test the compatibility of the tube with your products; a container design service to design special tubes for special requirements, and studios to carry out surface design.

THE WIDE RANGE OF SIZES CATER FOR ALL REQUIREMENTS, FROM BULK PACKS TO SAMPLES.

Aluminium tubes. *Diameters from 12.5mm to 75mm with depths from 1.5 to 7 times the diameter, maximum 230mm.*

Plastic tubes. Diameters from 9.3mm to 36mm and depths from 25.4mm to 89.7mm.



MB METAL BOX

Another
winner to
boost your
Summer Sales—
it's **NEW** it's




twin
tan
TANS AND PROTECTS



twin
tan

The
tanning cream
with the
sunburn screen

Following last year's success of HE-TAN revolutionary new TWIN-TAN is sure to be in big demand—

Following the success of He-Tan last year comes revolutionary new TWIN-TAN. It is sure to be in big demand—

- * Especially as with every bottle there is a free applicator glove to keep hands from tanning.
- * Especially as tremendous large-space advertising starts in May and runs throughout the Summer in Daily Sketch, Sunday Pictorial, Reveille, Weekend, Woman's Own, Parade and Blighty, Photoplay, Woman and Beauty, True Story, True Romances, She, and Vanity Fair.
- * Especially as Twin-Tan gives a golden holiday tan *without* the sun, *and*, in the sun, it *protects* against sunburn!
- * You will want to take advantage of the really generous introductory Bonus Offer.

Place your order now

Twin-Tan *tans* without the sun... protects in the sun

Sole distributors:

Fassett & Johnson Ltd.,
86 Clerkenwell Road, London, E.C.1.
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(available until 31st May 1961)

12 bottles for the price of 10
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Purchase Tax Free on the Bonus goods, too!

Normal Trade Price 105/- per dozen

Purchase Tax 52/6 per dozen

Retail Price 17/6 per bottle (inc. tax)

ON BONUS TERMS

You buy 1 doz. for 131/3

You sell 1 doz. for 210/-

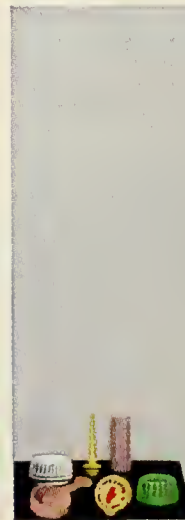
You make £3.18.9 real profit

"Technically . . .

the TWIN-TAN formula contains a higher proportion of DHA than any previous tan product—includes the latest and most effective sunburn screening agent—and is siliconised for extra water resistance."

New bright and compelling display material accompanies every order!

Plastic packaging by METAL BOX



P METAL BOX
PLASTICS GROUP
PLASTIC FILMS • LAMINATIONS • BOTTLES • MOULDED CONTAINERS

COX



*There are products
which transmit quality
through the COX techniques
. . . . over to you*

Pronel

*the proved
remedy for*
**BROKEN
FINGERNAILS**

*takes a
PROFITABLE
step forward
for YOU!*

PRONEL, the gelatine plus multivitamins remedy for splitting and broken fingernails, has been restyled, both product-wise and promotion-wise. An improved formula, and vastly simplified packaging together with modern streamline production methods, have enabled the selling price to be slashed to 10/6 for a four weeks' supply. This brings Pronel within reach of a far wider public. Good, strong educative advertising, featuring the price reduction, has been booked in the leading women's magazines for 1961—and point-of-sale has been provided with a most attractive crowner. PRONEL is a line you can confidently recommend and your recommendation will pay you handsome dividends. Now—your orders, please, for immediate delivery.

Sole distributors:

FASSETT & JOHNSON LTD.
86, Clerkenwell Road, London, E.C.1
Telephone: CLERkenwell 2336

Manufactured by

P. LEINER & SONS LTD.



NOW an improved formula

*four weeks' supply
in attractive pack
retailing at*

10/6

TRADE PRICE

72/- per dozen plus 18/- per dozen P.T.

Broken unsightly fingernails?

Beautiful hands depend on beautiful nails. Split, broken nails are a disfigurement you can avoid. Nails need nourishing from within—with the right proteins and minerals to ensure strong growth. New formula PRONEL contains Gelatine—a protein food which assists in forming healthy nail cells—plus valuable multivitamins and minerals. PRONEL is pleasant and easy to take in water.

Fingernails split and broken?

Your nails split and break because they are not making healthy growth. This defect no external application can remedy—the remedy lies in making good certain deficiencies in your system. New formula PRONEL supplies those deficiencies, in Gelatine—a protein which assists in forming healthy nail cells—plus valuable multivitamins and minerals. PRONEL is pleasant and easy to take, in cold or warm water.

you need

Pronel

...AS ADVERTISED!

*These advertisements will
appear during 1961 in :*

**WOMAN • WOMAN'S MIRROR
WOMAN'S REALM • VOGUE
WOMAN'S OWN • VANITY FAIR
WOMAN AND BEAUTY**

Total circulation 8,948,605

Readership (Women) 26,362,000



My mummy insists on

MODERN
teats
made by
CANNON
-naturally!



Wise mother! She knows there will be no feeding time temperament because CANNON Modern teats *never* put a baby off his feed. She can choose from *three* flow sizes the one that suits her child's preferred rate of feed. All CANNON teats have *triple perforation* to ensure even, air-free flow, and *spiral reinforcement* to prevent softening or collapse of the rubber. And CANNON teats *last longer* meaning fewer new ones to 'break in' — try them and see.

7½d. from all chemists & clinics

CANNON
MODERN
ANTI-COLIC TEATS
FOR NEAREST TO
NATURAL FEEDING

Good, Tottenham, London, N17

appearing
in the mass
NATIONAL PRESS
CAMPAIGN

This is
the
CANNON
baby...

This year's CANNON campaign will be seen in the National Press, Women's Magazines, Radio and TV Times and in the Baby Publications.

The advertisements will emphasize all the unbeatable qualities that make Cannon feeding 'nearest to natural' and end the feeding time temperament common with inferior products.



Supporting your sales of
CANNON MODERN Anti-colic Teats
The preferred baby teat today!

ORDER NOW TO ENSURE AMPLE SUPPLIES!



**After the
sun of summer
...the winds
of winter**



And again, the need for Christy's Emulsion. Protective, soothing and healing on sore or exposed skins, Christy's Emulsion is widely known and trusted. As summer sunburn is followed by winter chapping and rawness, the demand for Christy's Emulsion continues to expand. To help meet this demand, see you have ample stocks of Christy's Emulsion.

Small bottle or tube retails at 2/3, large bottle at 3/10

CONTINUED ADVERTISING SUPPORT

for Christy's Emulsion
in Press and television
stimulates demand and
sends customers to
your shop

Stock up with Christy's !



Christy's Emulsion

THOS. CHRISTY & Co. Limited, 152, NORTH LANE, ALDERSHOT, HANTS.

... THE BIGGEST NEWS FABULOUS

Perform

THE

Remember the revolution in selling that the home perm brought—how a great new profit opportunity opened up?

now it's about to happen again
...with **PERFORM**, the 8-day set

PERFORM is not a lacquer, not a perm . . . yet it creates soft waves and curls that stay in for 8 days. It's an entirely new discovery, already the rage in America, where the home perm itself originated. And **PERFORM** has the benefit of lavish and thorough national advertising, giving this amazing new product striking and powerful support!

Perform

Perform

Perform

Don't forget **YOUR NEW PROFIT-MAKER IS**

SINCE THE HOME PERM!

8 DAY SET IS HERE!

THE LATEST BEST-SELLER

Now with a TAX FREE BONUS to you of 12-for-the-price-of-11!

BONUS PARCEL

one dozen List price 75/- plus Purchase Tax

BONUS PRICE 68/9 plus Purchase Tax

PROFIT OF 3/10 a bottle Retail price 12/6

THIS OFFER ENDS APRIL 7th

Be the first in your area to display and sell PERFORM 8-day set
at these fabulous top bonus terms! Ring your wholesaler or
Dendron Distributors for your initial supply—NOW



perform

DENDRON DISTRIBUTORS LTD

94 Rickmansworth Road • Watford • Herts



NEVER BEFORE
SUCH A GOOD CAMERA AT SUCH A LOW PRICE

Sporti 4 49'8 takes black-and-white and colour

Greatest camera news of the year is the new Ilford Sporti 4. Now you can take brilliant pictures - in black-and-white or as colour prints - even if you've never handled a camera before!

The Sporti 4 is simplicity itself - just set it for sunny or cloudy weather and you're ready to shoot. And with its snappy modern styling, eye-level viewfinder and press-button release, the Sporti 4 looks a really professional job.

All this for 49'8 - there's never been such value as the Ilford Sporti 4. For this holiday season you can afford to have fun with a new Ilford Sporti 4.

ILFORD famous in black-and-white * **fabulous in colour**

SELOCHROME PAN
Famous Ilford film, the best there is for black-and-white snaps all the year round. For your Sporti 4 and all other popular cameras.

ILFACOLOR
The fabulous new film that gives you colour en prints on the Sporti 4 and all other popular cameras.

It's time to sell **ILFORD** cameras
to readers of the

DAILY EXPRESS

(Readership over 12,000,000)

Just before Easter! March 27 is the important date.
ILFORD is taking a half-page to tell the world about
Britain's most spectacular camera value.

It pays to display **ILFORD** cameras and films

ILFORD LIMITED • ILFORD • ESSEX



MALTOSE CRYST.

Bottles of 0.5 kilo
Steel Drums of 12.5 kilos

MALTOSE TECHNICAL HYDRATE

Fibre Drums of 12.5 kilos

Enquiries are invited to the manufacturers **TRIFAX N.V.**, Bussum, Holland

Their loss is your gain!

SELL BISKOIDS

FOR SENSIBLE SLIMMING

VITAL STATISTICS YOU SHOULD KNOW...

Over 19,000,000 people (at least 6,000,000 of whom are women) will see the new Biskoid advertisements now appearing in the National Press and popular women's magazines.

The commonsense appeal of the Biskoid advertisements (with their warning about 'Slimmer's Nerves') will attract the many readers wishing to lose weight on medical advice or æsthetic grounds, who will look out for these non-fattening sweeteners which make it so easy to lose weight—without losing energy.

Here is a slimming treatment you can conscientiously recommend—make sure you capture your full share of the market, by displaying the Biskoid packs prominently in your store.

* THESE POWERFULLY APPEALING BISKOID ADVERTISEMENTS WILL APPEAR IN THE FOLLOWING PUBLICATIONS

Daily Mirror
Daily Mail
Daily Express
Daily Herald

Woman's Own
Woman's Realm
Woman's Illustrated
Woman and Home

Woman and Beauty
Modern Woman
Good Housekeeping
True Story

SELL

BISKOIDS

REGD.

NON-FATTENING SWEETENERS

THIS ATTRACTIVE DISPLAY OUTER
WILL BRING SLIMMERS INTO
YOUR STORE

NOW SLIM SWEETLY WITHOUT

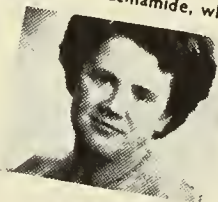
'SLIMMERS NERVES'

NEW VITAMIN FORTIFIED NON-FATTENING SWEETENING TABLETS

TRUTH ABOUT SLIMMING Weight is put on by what you eat and drink. Even tea sweetened with sugar adds calories. 6 cups of tea or coffee a day = 330 calories.

STOPPING EATING STARTS WORRY To stop sugar in tea cuts calories by about 1,700—helping you lose $1\frac{1}{2}$ lbs. per week. But with ordinary sweeteners which lack vitamins—and diets low in calories which are generally low in health vitamins—you may fall victim to 'Slimmer's Nerves'

NEW BISKOIDS sweeten tea or coffee without fattening, and provide you with energising Vitamins B₁ and Niacinamide, which also assist in the breakdown of fattening starches.



"... how pleased I am with your product BISKOIDS. I weighed 11 st. 7 lb. and am down to 8 st. 7 lb. (3 st. less) and look and feel better. I have recommended BISKOIDS to dozens of my acquaintances who all agree they are highly superior to ordinary saccharin tablets".
Mrs. Audrey Hasson, Caernarvon

USE

BISKOIDS

REGD.

instead of sugar

HANDY SIZE The New Biskoids pocket phial costs only 1/6. One New Biskoid equals in sweet cost 2/9. 500 6/6 and a trial pack 6d.

ANDOMIA PRODUCTS LTD., GLASGOW



RETAIL PRICES

Trial Pack . . .	6d
Pocket Phial (100 tablets) . . .	1/6d
200 tablets . . .	2/9d
500 tablets . . .	6/6d

All trade enquiries to:

BRITISH CHEMOTHEUTIC PRODUCTS LTD. · Kemtheutic House · Grant Street · Bradford · Yorkshire

L'Oreal · Paris launch a new revolutionary shampoo-type hair colouring for concealing GREY HAIRS

Color-Match

trade mark

an absolutely harmless liquid colouring as easy to use as successful Color-Glo

Here is the first advertisement (Approx. $\frac{1}{3}$ actual size)

COLOR-MATCH colours grey hairs to match the rest of the hair —without changing its natural basic colour. It appeals to an entirely new market. It can double your hair colouring sales.

There are some eleven million women in the country with grey hairs in their head. The vast majority do not like them, and would jump at the opportunity of concealing them, if they could be assured of doing it easily, quickly, harmlessly and without changing the natural basic colour of their hair. COLOR-MATCH does all this.

COLOR-MATCH has overcome all the obstacles that have so far retarded the market for colourings to conceal grey hair. It needs no skin test, is as simple to use as a shampoo, is semi-permanent, lasts through 6-8 shampoos, and leaves the hair in beautiful condition.

A self-lathering liquid, it colours the grey hairs to match the natural hair colour, without changing the basic shade of the hair. If the hair is dark brown it stays dark brown, if it is light brown it stays light brown, except that the grey hairs will have been coloured to match the shade of the rest of the hair.

COLOR-MATCH is certain to create an entirely new hair colouring market, from which you will earn big new profits. It has behind it the same brilliant research, the same marketing insight and sales know-how that have made Color-Glo the most successful and biggest-selling hair colouring in the country.

Made in six beautiful shades of brown

Dark Brown
Dark Warm Brown
Mid-Brown
Mid-Warm Brown
Light Brown
Light Golden Brown

Retail Price 5/6d per bottle.

Trade Price 33/-d per doz.

Purchase Tax at 50%—16/6d per doz.

Retail Profit Margin 16/6d per doz.



Over 13,000,000 women to see this COLOR-MATCH advertising now appearing in WOMAN WOMAN'S OWN EVERYWOMAN WOMAN & BEAUTY MODERN WOMAN SUNDAY EXPRESS

Make sure you have a complete range of Color-Match shades to meet the immense demand.

Keep that Youthful Look in Your Hair with natural-as-natural Color-Match

by L'OREAL



Naturally colours-in those Stray Grey Hairs without changing your own colour

THIS IS FOR YOU, the lively beauty-conscious woman of today, who has zest and enthusiasm for life, and who wants to keep her looks as young as her personality.

COLOR-MATCH is a wonderful new product by L'Oreal of Paris—as quick and pleasant to use as a shampoo. It naturally colours-in those stray grey hairs, whether they are few or many, so they blend invisibly into the natural colour of your hair, without changing your personal hair colouring.

COLOR-MATCH is not a hair dye, but something entirely new and different, which actually adjusts its colour to suit your own individual hair colouring. If you have light brown hair you stay light brown, if you are medium brown you stay medium brown, if you are dark brown you stay dark brown. But what were grey hairs will now match in perfectly with the colour of the rest of your hair.

COLOR-MATCH won't rub off on pillows, hats or clothes, and is unaffected by rain or bathing. The effects last through 6-8 shampoos, so should you not want to go on using COLOR-MATCH, its effects will fade pleasantly and naturally, leaving your hair as it was before.

An absolutely natural result

Your closest friend will not know you have used COLOR-MATCH—so natural are the results. And COLOR-MATCH is completely harmless. Indeed, it is actually good for your hair, improving its condition, giving it shine and softness and making it wonderfully easy to manage. COLOR-MATCH does not in any way affect permanent waving.

As quick and easy as a shampoo!



Color-Match is so simple to use. You just lather it on like a shampoo, leave 15 minutes, and rinse off.

You need not hesitate about concealing your grey hairs with COLOR-MATCH, it is so safe and easy to use, that if you can shampoo your hair you can use COLOR-MATCH. And COLOR-MATCH results never vary—always you will get that natural-as-natural look, and perfect matching-in of few or many grey hairs.

How to choose your shade of Color-Match. Choose the shade nearest your own hair colour. If in doubt, choose one shade lighter than your natural colour.

DARK BROWN DARK WARM BROWN
MID-BROWN MID-WARM BROWN
LIGHT BROWN LIGHT GOLDEN BROWN

Color-Match

"Matches-in" those stray grey hairs

Effects last through 6-8 shampoos

A creation of L'OREAL · PARIS The World's Greatest Makers of Hair Beauty Products.



Your wholesaler has supplies or you can order direct from GOLDEN LIMITED, 7, Grosvenor Street, London. W.1

we climbed
to the
peak of
Snowdon...



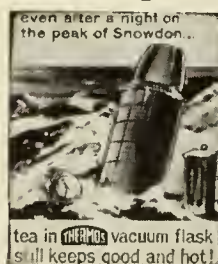
to bring you higher-than-ever
profits on **THERMOS** vacuum ware!

A 'THERMOS Sixteen' vacuum flask was filled with hot tea, and then left all night on the icy peak of Snowdon. In the morning it was opened, and the tea was still found good and hot!

This amazing test is to be the basis of a dramatic new advertising campaign to be run for all Thermos Brand vacuum ware. The campaign is scheduled for the peak-buying Spring and Summer months, and is certain to increase *your* Thermos business enormously. Watch for this new advertising—and then watch your profits soar as high as Snowdon!

The word Thermos is a Regd. Trade Mark

Exciting new **FREE** display



To help you create a dramatic display—and thus gain maximum benefit from the advertising—Thermos Ltd are offering a brand-new display card, closely based on the exciting 'Snowdon' theme.

This display is free to all Thermos stockists.

SPRING BONUS OFFER

A parcel* containing Thermos Brand vacuum flasks is available to all stockists at a selling price of £10.5.3d (plus P.T.) subject to 25% and 5% extra discount=£7.6.1d (plus P.T.)—profit £2.19.2d!

*Parcel contains Flasks Nos. 16½ (4), 16 (15), 1616 (2), 16Q (2) and 16QH (2) and a free 'Snowdon' showcard.

Thermos Limited, Seymour Road, Leyton, London, E.10

Personal Service means a lot . . .



**YOUR INTERESTS ARE OUR INTERESTS
YOUR PROBLEMS ARE OUR PROBLEMS
LET US HELP YOU SOLVE THEM.**

Although it appears that those more leisurely days when butlers were the rule rather than the exception, are fast slipping into history, it is encouraging to find that with certain public and professional services the satisfaction of doing a job well and giving that extra personal attention is still regarded as worthwhile.

THIS IS OUR AIM

Our deliveries cover a wide area in the South East of England, we are constantly expanding our stocks and services, and our Pharmaceutical Staff is always ready to assist you.

BRADLEY & BLISS LTD.

KING'S ROAD • READING • Reading 55861

Also at

WEST HILL ROAD,
ST. LEONARDS-ON-SEA
(Hastings 6602)

WADDON MARSH WAY,
CROYDON
(MUNICIPAL 2500)

RAMSGATE ROAD,
SANDWICH
(Sandwich 3335)



COMMENCING APRIL 16th

**FREQUENT NATIONAL PEAK TIME 45 sec.
T.V. SPOTS**

NON-T.V. AREAS: LARGE-SPACE PRESS ADS.

COLOURFUL COUNTER DISPLAY MATERIAL

ALL PART OF
STERGENE'S
CONTINUOUS
SUPPORT!

**SO KEEP UP YOUR STOCKS! KEEP THEM HANDY
FOR SERVING! DISPLAY TO SELL!**



'SKYLON'**polythene Feeding Bottles***Obtainable from your usual wholesaler*

Now supplied
in this attractive
two colour
printed pack.
Transparent
windows keep
the contents clean
yet visible.

Sterilizing instruc-
tions included
with each bottle.



LOOK.....
the ORIGINAL
Polythene Feeder

**RETAIL
PRICE
1'8
each**

ELGAR 6006

Manufactured by

FIBRENYLE LTD

SKYLON HOUSE · PARK ROYAL ROAD · LONDON · N.W.10·

JACW/1/31



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 175

March 25, 1961

No. 4232

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PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD.,
at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

WOLVERHAMPTON: 89 Woodland Avenue, Tettenham Wood.
GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679.
LEEDS: 16: 32 Wynford Rise, West Park. Phone: Leeds 67 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Quarterly
Price List and The Chemist and Druggist Diary
and Year Book, £2 10s. Single copies one shilling each.



Endocil

AFFORDS CONSTANTLY INCREASING SALES!



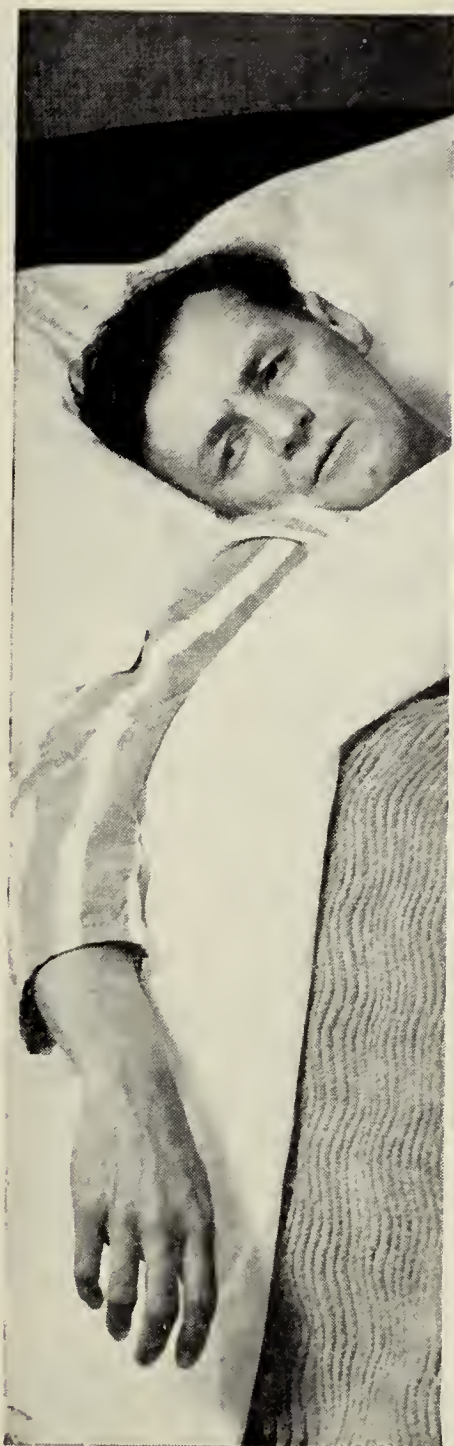
- * Endocil . . . the perfected and tested hormone cream.
- * Endocil is sold only through chemists.
- * Endocil yields $33\frac{1}{3}\%$ profit plus an extra $12\frac{1}{2}\%$ for display on one dozen or more tubes.
- * Large spaces in WOMAN, WOMAN'S OWN, WOMAN'S WEEKLY, WOMAN & HOME and MY HOME. Millions of women see these advertisements and display will secure their custom.
- * Endocil customers are regular customers.

ENDOCIL retails at 5/2 a tube or 12/- for a featherweight jar. Prices include purchase tax.

PROFIT BY DISPLAYING Endocil

ORGANON LABORATORIES LIMITED
BRETENHAM HOUSE, LANCASTER PLACE, LONDON W.C.2





Shortening
the period of
convalescence



METATONE

METATONE* is designed to help shake off mental depression and physical lassitude and to restore appetite and bodily vigour following influenza and other debilitating illnesses. A pleasantly-flavoured tonic, combining appetite-promoting vitamin B₁ with strychnine and mineral glycerophosphates, METATONE rapidly restores normal metabolic function.

Supplied in bottles of 8, 16 and 80 fl. ozs.

* TRADE MARK

PARKE-DAVIS

WPS III2



PARKE-DAVIS & COMPANY Inc. USA Liability Limited
Hounslow, Middlesex • HOUNslow 2361

now *Lil-lets* give more confidence for the money—

now packed in 20's. Women buy sanitary protection a pack at a time—they always have. But now they can buy twice the number of Lil-lets tampons in a single thrift pack: only

3/3 for 20. They have more Lil-lets on hand, more money left in their pockets. That's plenty to be pleased about... so please them now by having plenty in stock.

now retailers can be more confident, too—

introductory offer for new thrift pack —

Bonus profit of
£1-6-0
on every outlay of
£2-12-0!!

27th March to 6th May 1961

2 DOZ. CASE:

Retail Price	3 3 per pack
Selling Price	£3.18.0d
Bonus Price	£2.12.0d
PROFIT	£1.6.0d

From then on it's still at least
16/- profit on a 2 dozen case!

And the pack's just this big...
2½" × 4½" × 1" life size!

Confident these compelling ads will have mass readership.

Confident the thrift pack will have wide appeal.

Confident of more customers, more Lil-lets sales, more and more profits.



still handy handbag size:
convenient for stockroom shelves,
popular for quick, easy sales!

LILIA-WHITE (SALES) LTD., BESSEMER ROAD, WELWYN GARDEN CITY, HERTS.

MARCH 1

250 mgm	.. 16	25	6ea	..	38	3	TS
	100	153	4ea	..	230	0	TS
	1000	1480	6ea	..	2220	9	TS
ear solution 50 mgm vial		6	0ea	..	9	0	TS
ointment 3% ..	.. 1/2 oz	4	0ea	..	6	0	TS
	1 oz	7	2ea	..	10	9	TS
ophthalmic 1%	6 x 1/2 oz	6	0ea	..	9	0	TS
sterilised vial		4	10ea	..	7	3	TS
soluble tablets 50 mgm	100	35	8ea	..	53	6	TS
syrup .. ..	.. 4 oz	19	0ea	..	28	9	TS
	16 oz	68	8ea	..	103	0	TS
troches ..	.. 25	3	8ea	..	5	6	TS
Avlosulfon (649 ICI)							
tablets 0.05 gm	..1000	117	0 ..	..	14	7 1/2	
Ayrton (78 AS&Co)							
fairyspun leg tan	..	14	0	7 0	2	9	
Beplete (1352 Wyeth)							
elixir .. ..	.. 4 oz	42	9 ..	..	4	9	†s1s4A
	40 oz	291	0 ..	..	32	4	†s1s4A
tablets .. ..	.. 50	34	0 ..	..	3	10	†s1s4A
Beplex (1352 Wyeth)							
elixir	40 oz	268	0 ..	..	29	10	
Billorat (8 Actina)							
tripod Stabilo gray	1125/3	68	8ea	16 9ea	119	9	
Biortergic (972 Pharmax)							
detergent	2 kilo	28	0ea	..			
Bob Martin (143 BM)							
show ring shampoo	..	19	1	4 9 1/2	2	6	
Breck (1169 GS&S)							
shampoo sachet	..	7	0	1 9	1	0	
Bright Future (631 Hudnut)							
hair lightener ..	..	48	3	24 1 1/2	7	6	

**THIS WEEK'S CHANGES
AT END OF LIST**

Bronchipax (70 Aspro)									
tablets	6	46	0	..	..	1	10		
		(3 doz)							
	24	41	7	..	..	5	0		
	48	74	4	..	..	8	10		
	72	96	8	..	..	11	6		
Brovon (859 Moore)									
pressurised refill ..	..	121	9	..	..	14	6	p	1
Brunitex (1113 S&B)									
shampoo powder ..	..	4	5	1	1½	7½			
liquid ..	..	11	0	2	9	1	5½		
sachet ..	..	4	7	1	1½	7½			
Certor (786 MacDonald)									
bandage W.O.W. 2 in × 4 yd		4	8	..	..		
2½ in × 4 yd		5	8	..	..		
3 in × 4 yd		6	7	..	..		
4 in × 6 yd		12	4	..	..		
6 in × 6 yd		18	2	..	..		
cotton wool, absorbent .. ½ oz	.. ½ oz	5	0	..	..		
1 oz	1 oz	6	10	..	..		
2 oz	2 oz	11	6	..	..		
4 oz	4 oz	20	2	..	..		
8 oz	8 oz	36	8	..	..		
16 oz	16 oz	68	9	..	..		
gauze, plain	½ yd	3	7	..	..		
¾ yd	¾ yd	5	4	..	..		
1 yd	1 yd	9	5	..	..		
3 yd	3 yd	21	6	..	..		
6 yd	6 yd	39	10	..	..		
12 yd	12 yd	77	10	..	..		
lint boric ½ oz	.. ½ oz	6	8	..	..		
1 oz	1 oz	10	3	..	..		
2 oz	2 oz	18	5	..	..		
4 oz	4 oz	33	11	..	..		
8 oz	8 oz	64	2	..	..		
16 oz	16 oz	123	9	..	..		
lint plain ½ oz	.. ½ oz	6	5	..	..		
1 oz	1 oz	9	8	..	..		
2 oz	2 oz	17	2	..	..		
4 oz	4 oz	31	7	..	..		
8 oz	8 oz	59	5	..	..		
16 oz	16 oz	114	6	..	..		




remember

'Marzine' for extra profit

all
the year
round



BURROUGHS WELLCOME & Co  (THE WELLCOME FOUNDATION LTD) LONDON

**3-WAY BONUS
CLOSES
MARCH 31st**

[illegible]

	Oliver's (911 WO)									
	bathing caps waterscal			19	0	1	2	3	0	
	brickett racing cap ..			17	6	1	1	2	9	
	latex undercap ..			8	0		6	1	3	
	Optabs (175 BCP)									
	kit pack			24	3		6	2	9	p1
	Orastrep (378 DCBL)									
	suspension .. 50 mls			100	0	..	..	12	6	s4BTS
	tablets 25			110	0	..	..	13	9	s4BTS
				100	31	8ea	..	47	6	s4BTS
				500	145	0ea	..	217	6	s4BTS
	Ovaltine (1303 Wander)									
	chuckles			7	2	..	..		9	
	Oxydent (1113 S&B)									
	denture cleanser ..			12	10	3	2½	1	8½	
				23	10	5	11½	3	2	
	Pabalate (1071 Robins)									
	tablets hydrocortisone 500	2608	0	652	0	380	4	TS		
	Pacquins (1113 S&B) hand cream									
	mauve label			17	1	8	6½	2	8	
				30	0	15	0	4	7	
	red label			17	1	8	6½	2	8	
				30	0	15	0	4	7	
	tube 1 oz			10	10	5	5	1	8	
		2 oz		17	1	8	6½	2	8	
	Penine (1232 T&R)									
Delete	leg tan 2 oz									
	Penotrane (1305 WB)									
Delete	silicone cream all sizes									
	Pepsodent (955 Pepsodent)									
	tooth-paste economy size			28	3½	6	8½	3	9	
	Persantin (154 B)									
	ampoules 10 mgm .. 5			6	6ea	1	7½ea	11	4½	
		25		24	6ea	6	1½ea	42	10½	
	tablets 25 mgm .. 30			9	6ea	2	4½ea	16	7½	
		200		57	0ea	14	3ea	99	9	
Delete	Phillips (976 PS&T)									
	magnesia texture and cleansing cream									
Delete	Phillishave (977 PE)									
Delete	jet standard model .. 7911									
	dual volt 7910									
	Portia (1160 Solport)									
	animal wool ½ oz			7	6	..	..	1	0	
		1 oz		12	9	..	..	1	9	
	Portyn (938 PD)									
	Kapseals 30			80	0	20	0	11	8	
		250		51	8ea	12	11ea	90	5	
	Potter's (995 Potter's)									
	skin clear ointment ..			9	0	2	3	1	6	
	Primes (1277 VI)									
	roll 7			6	1	10½	1	0		
	carton 18			10	4	8½	2	6		
	3 roll 20			10	5	2½	2	9		
	large 36			0	9	0	4	9		
	Primogyn Depot (1107 S&B)									
	100 mgm ampoules .. 3			52	0ea	..	78	0	pls4B	
		20		270	0ea	..	411	0	pls4B	
	Progest (208 BW)									
	vet 100 mls 6			216	0	..	..	24	0	
	Robinade (285 Colman) sachet									
				9	4gross	..		1		
Delete	Ross (1084 Ross)									
	entry 1125/3									
	Ross (1084 Ross)									
	binoculars									
	Stepmure 10 x 50 ..			..	..	..	1023	11		
	Stepsun 12 x 50 ..			..	..	..	1041	5		
	Tropical 7 x 40 ..			..	..	..	970	10		
	10 x 50 ..			..	..	..	1131	9		
	micro-projection attachment			..	..	..	350	0		
	mobile collapsible stand			..	..	..	371	0		
	Salicylamide (1305 WB)									
	tablets 0.5 gm .. 100			72	0	..	..	9	0	
		500		252	0	..	..	31	6	
		1000		480	0	..	..	60	0	
	Samaritan (1232 T&R)									
	olive oil .. 2½ oz			8	9	..	..	
		5 oz		14	0	..	..	
		10 oz		24	0	..	..	
		20 oz		47	0	..	..	
Delete	Samona (1096 Samona)									
	tablets No. 2									
	Sanilav (671 Jeyes)									
	plastic pack			24	8	..	..	2	9	
Delete	Scherk (128 Biometica)									
	7102									
	Silcot (786 Macdonald)									
	sanitary briefs ethic ..			54	0	2	8	6	11	
	Silk 'n' satin (1113 S&B)									
	lotion 18			7	9	3½	2	10		
				10	10	5	5	1	8	
	Simpkin's (1141 Simpkin)									
	peppermint rolls (rosc)			3	0	..	..	4		
	Sketron (1153 SKF)									
	100			0	25	0	14	7		
	Skol (1113 S&B)									
	sun lotion 1 oz			13	11	3	5½	1	10	
		2 oz		20	10	5	2½	2	9	
		4 oz		34	1	8	6½	4	6	

Sparine (1352 Wyeth)									
Latabs	20	64	0 ..	..	7	2	pls4B		
	250		9ea	..	71	8	pls4B		
Spratts (1175 SPL)									
cereal cat food ..		7	6 ..	..			10		
dog cakes 4 x 7 lb ..		23	6case	..		7	3		
mixed ovals ..		10	1 ..	..		1	1		
		19	9 ..	..		2	1		
ovals		10	1 ..	..		1	1		
puppy biscuits									
Sta-blond (1113 S&B)									
shampoo powder ..		4	5	1 1½		7½			
liquid		11	0	2 9		1 5½			
sachet		4	7	1 1½		7½			
SteriShave (438 ER)									
razor bath		22	0	11 0		3 9			
refills		18	0	9 0		3 0			
Stimplete (1352 Wyeth)									
elixir 4 oz		44	0 ..	..		4 11	†s1s4A		
	40 oz	287	0 ..	..		31 11	†s1s4A		
Suba-Seal (479 WF)									
feeding bottle, polythene									
	4 oz	..	..	..		1 3			
	8 oz	..	..	..		1 6			
Sunnybisk (535 Granose)									
	small	9	1 ..	..		11			
Swift (581 Haynor)									
battery shaver ..		36	3ea	8 10ea		58 10			
Tattoo (451 F&J)									
spiral brush-on mascara		45	0	22 6		7 6			
Tetracycl (969 Pfizer)									
capsules 50 mgm .. 100		35	8ea	..		53 6	TS		
250 mgm .. 16		25	6ea	..		38 3	TS		
	100	153	4ea	..		230 0	TS		
	1000	1480	6ea	..		2220 9	TS		
intramuscular injection									
100 mgm vial		4	6ea	..		6 9	TS		
intravenous injection									
250 mgm vial		8	6ea	..		12 9	TS		
500 mgm vial		15	4ea	..		23 0	TS		
oral suspension 1.5 gm		9	6ea	..		14 3	TS		
paediatric drops 1 gm		6	6ea	..		9 9	TS		
tablets 50 mgm .. 25		9	6ea	..		14 3	TS		
	100	35	8ea	..		53 6	TS		
	25	18	9ea	..		28 1½	TS		
	100	70	10ea	..		106 3	TS		
250 mgm .. 16		25	6ea	..		38 3	TS		
	100	153	4ea	..		230 0	TS		
	1000	1480	6ea	..		2220 9	TS		
topical ointment 3% .. ½ oz		4	0ea	..		6 0	TS		
	1 oz	7	2ea	..		10 9	TS		
Tetracycl-P (969 Pfizer)									
capsules 16		25	6ea	..		38 3	TS		
	100	153	4ea	..		230 0	TS		
	1000	1480	6ea	..		2220 9	TS		
Tetracycl-S.F. (969 Pfizer)									
eapsules 16		26	6ea	..		39 9	TS		
	100	159	2ea	..		238 9	TS		
	1000	1537	0ea	..		2305 6	TS		
Terramycin (969 Pfizer)									
capsules 50 mgm .. 100		35	8ea	..		53 6	TS		
250 mgm .. 16		25	6ea	..		38 3	TS		
	100	153	4ea	..		230 0	TS		
	1000	1480	6ea	..		2220 9	TS		
intramuscular injection									
100 mgm vial		4	6ea	..		6 9	TS		
intravenous injection									
250 mgm vial		8	6ea	..		12 9	TS		
500 mgm vial		15	4ea	..		23 0	TS		
nasal solution .. 5 mls		4	1ea	..		6 1½	TS		
ophthalmic solution									
25 mgm .. 5 mls		5	4ea	..		8 0	TS		
oral suspension 1.5 gm		9	6ea	..		14 3	TS		
paediatric drops 1 gm		6	6ea	..		9 9			
soluble tablets 50 mgm 25		10	3ea	..		15 4½	TS		
syrup 125 mgm/5 mls									
	60 mls	9	6ea	..		14 3	TS		
tablets 50 mgm .. 25		9	6ea	..		14 3	TS		
	100	35	8ea	..		53 6	TS		
	25	18	9ea	..		28 1½	TS		
250 mgm .. 16		25	6ea	..		38 3	TS		
	100	153	4ea	..		230 0	TS		
	1000	1480	6ea	..		2220 9	TS		
topical powder 3% .. 1 oz									
	3	8	0ea	..		12 0	TS		
troches 15 mgm .. 24		3	8ea	..		5 6	TS		
vaginal tablets 100 mgm 10		10	1ea	..		15 1½	TS		
topical ointment .. ½ oz		4	0ea	..		6 0	TS		
	1 oz	7	2ea	..		10 9	TS		
	200 gm	46	0ea	..		69 0	TS		
S.F. capsules .. 16		26	6ea	..		39 9	TS		
	100	159	2ea	..		238 9	TS		
	1000	1537	0ea	..		2305 6	TS		
Thermos (1226 Thermos)									
vacuum jugs 54		..	..	..		44 9			
	54Q	..	..	..		47 6			
jars 617		..	..	..		20 9			
	707	..	..	..		32 9			

Thermos (1226 Thermos)	613								
Trasyol (452 FBA)	607								
ampoules 5 mils	5	42	4ea	63	6				
2 mils	25	200	0ea	300	0				
Triominic (1303 Wander)	10								
tablets	250	36	5ea	54	7	pls7			
Tucal (250 Chelspa)									
linctus	4 oz	31	0	7	9	4	6		
	40 oz	23	6ea	5	10½ea				
	80 oz	45	0ea	11	3ea				
lozenges		16	0	4	0	2	6		
		69	0	17	3	10	3		
Val-Pak (343 DH)									
large tube		24	2	12	1	3	9		
Veedip (1273 Veedip)									
gloves household flesh									
light		22	6	1	1½				
medium		28	0	1	5				
heavy		39	0	1	1½				
old rose		24	0	1	2½				
surgeons' latex									
premier quality white		26	6	1	3½				
special heavy weight, white		55	0	2	9				
suprex quality, brown		29	0	1	5				
velvex brown, sizes 5 and 5½									
rough finish		42	0	2	1				
smooth finish		45	0	2	3				
ice bag 8 in		3	6ea						
10 in		4	3ea						
Velouty (379 Dixor)									
powder cream	jar	19	2	9	7	3	3		
skin food	tube	12	0	6	0	2	0		
Vespral (1176 Squibb) emulsion all sizes									
Vikelp (1113 S&B) No. 1		15	11	3	11½	2	1		
No. 2		31	10	7	11½	4	2		
No. 3		61	3	15	3½	8	1		
Virugon (97 Bayer)									
tablets	48	10	8ea	2	Sea	18	8	†	
	500	105	8ea	26	5ea	184	11	†	
Vitalising (1286 VGC)									
(distributors 1141 Simpkin)									
glucose tablets	rolls	4	6			6			
Vitesso (359 DDD)									
shampoo		6	10	1	9	1	0		
Vosene (303 County)									
shampoo sachet		4	4	1	1	7			
cream sachet		4	4	1	1	7			
Vykmin (1113 S&B)									
capsules		42	9			4	9		
		78	9			8	9		
		144	0			16	0		
Weetmeet (1175 SPL)									
No. 1		10	1			1	1		
No. 2		10	1			1	1		
Wellcome (208 BW)									
pertussis vaccine 0.5 mils 3		45	4			5	8		
5 cc		80	0			10	0		
semen diluent (vet)	50 cc	63	0			7	0		
staphylococcus toxoid (vet)									
100 cc		405	0			45	0	VPO	
swine erysipelas antiserum									
(vet)	100 cc	162	0			18	0	VPO	
250 cc		346	6			38	6	VPO	
Wendy (786 Macdonald)									
whooping cough vaccine all sizes									
Wendy (786 Macdonald)									
baby pants floral nylon N70		55	4			6	11		
nylon film N30									
Williams (1113 S&B)									
luxury shaving cream		18	4	4	7	2	5		
shaving stick		22	8	5	8	2	11		
refill		11	0	2	9	1	5½		
Winged Lion (995 Potter's)									
compound herbs		12	0	3	0	2	0		
Wyovin (1352 Wyeth)									
tablets with phenobarbitone									
50		57	0			6	4	†s1s4A	
250		216	0			24	0	†s1s4A	
Yestos (422 EGC)									
irradiated puppy powder									
8 oz		38	0			4	0		
veterinary yeast tablets	100	12	0			1	6		
1000		77	0			8	6		
2500		15	0ea			20	0		
Yestos E (422 EGC)									
veterinary yeast tablets	75	32	0			4	0		
250		80	0			10	0		
1000		25	0ea			37	6		

AMENDMENTS TO KEY TO SUPPLIERS:

(95 Baxter)=BAXTER LABORATORIES, LTD., London Road Trading Estate, High Wycombe, Bucks. High Wycombe 4612.
 (766 Liquinure)=LIQUINURE SALES, LTD., 19 Duke Street, London, W.1. Welbeck 5764.

(822 McEwan)=LEONARD McEWAN, LTD., 28 Orsman Road, London N.1. Shoreditch 7754.
 (941 Parazone)=PARAZONE CO., LTD., 12 Wellington Street, London E.16. Albert Dock 5244.
 (973 Pharmethicals)=PHARMETHICALS (LONDON), LTD., Victoria Way, Burgess Hill, Sussex. Burgess Hill 2737.
 (1131 Shulton)=SHULTON (GREAT BRITAIN) LTD., Trevor House 96 Brompton Road, London, S.W.3. Knightsbridge 3771.
 (1276 Vibac)=VIBAC LABORATORIES, LTD., 90 High Street, Bovingdon, Herts. Bovingdon 3289.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time.

A=Advanced, R=Reduced.

Entries new this week are marked thus:—●

Adreson (917 Organon)									
eye drops 1%	3 mils								
tablets 5 mgm	40								
25 mgm	20, 40								
Ambinon A (917 Organon)	1 mil 3 & 25								
Ambinon B (917 Organon)	1 mil 3 & 25								
Amphedrex (195 Brook Parker)	tablets 25								
Andre Philippe (48 AP)									
reconditioning cream									
dispenser	17								
Asmaval (378 DCBL)									
tablets	500	28	4ea	42	6	pls4B			
Bifacton (917 Organon)	tablets 30								
Bright Mist (385 DG)									
hair set aerosol		72	0	36	0	12	0		
Bronnley (194 Bronnley)									
pine bath cubes (6)	2022/6	19	0	9	3	3	3		
essence 10oz	902	56	9	27	8	9	6		
turtle oil bath soap	604/B	15	0	3	7	2	2		
Broprin (195 Brook Parker)									
tablets	250	5	0ea						
20, 50, 100, 3 x 100									
Color Bright (385 DG)									
shampoo		51	0	25	6	8	6		
Color High (385 DG)									
rinse		70	0	35	0	11	9		
Cortisone (759 L&B) acetate									
tablets 5 mgm	100	14	2ea			21	4	TS	
	500	71	1ea			106	9	TS	
25 mgm	100	53	4ea			80	0	TS	
		266	8ea			400	0	TS	
Di-Adreson (917 Organon)	tablets 1 mgm 30								
Di-Adreson-F (917 Organon)	tablets 1 mgm 30								
Diantrone (917 Organon)	tablets 2.5 mgm 500								
Dicoumarin (917 Organon)	tablets 50 mgm 25 & 500								
Dimenformon (917 Organon)									
ampoules 1 mgm/mil	25	15	6ea	23	3	pls4B			
	6								
vial 5 mils	25	35	4ea	53	0	pls4B			
5 mgm/mil	6								
vial 5 mils	25								
10 mgm/2 mils	25	70	0ea	105	0	pls4B			
	6								
dipropionate 5 mgm/mil 5 mils									
ointment	18 gm	15	0ea	22	6	pls4B			
DOCA (917 Organon)									
ampoules 2 mgm/mil	25	15	6ea	23	3				
	6								
5 mgm/mil	25	21	2ea	31	9				
	6								
10 mgm/mil	25	41	8ea	62	6				
	6								
Dreamland (403 EA) electric blankets									
60 x 30 in single heat NS1/2	60	5ea	14	9ea	99	6			
60 x 48 in single heat ND1/2	89	3ea	21	9ea	147	0			
60 x 30 three heat 3FS1/2	81	4ea	19	10ea	134	0			
60 x 48 three heat 3FD1/2	117	6ea	28	9ea	194	0			
Duaetin (917 Organon)	tablets 250								
Emeside (718 LAB)									
capsules 250 mgm	100	27	9ea	37	0				
Ferrodex (195 Brook Parker)									
iron tonic 4 oz		28	0						
8 oz		46	0						
Francolor (637 Hunter) camera									
with f/2.8 Color Frankar									
lens		129	10ea	31	8ea	226	5		
ever ready case		16	5ea	5	8ea	40	4		
Gestanin (917 Organon)									
tablets 5 mgm	500	221	0ea	331	6				
Gestyl (917 Organon)									
ampoules 200 iu 1 mil	6								
400 iu 1 mil	6								
500 iu 1 mil	3, 6, & 12								
1000 iu 1 mil	6								
3000 iu 1 mil	6								

PANADOL

N-acetyl-p-aminophenol 0.5G.

Available in packs of 12, 100, 500 and 2,500

BAYER PRODUCTS, Division of Winthrop Group, Ltd.
SURBITON-UPON-THAMES, SURREY.

Excellent analgesic and antipyretic which contains no aspirin, phenacetin or codeine. Outstandingly safe, effective and free from side effects, Panadol has been given to patients suffering from acute peptic ulcer without causing gastric irritation.

POTENT AND SAFE

Gwilym Evans' (552 GE)									
●	Stopain tablets	20	13	0	3	3	1	9	
R	Haze (1037 Reckitt)	C	32	7	..	..	3	9	
R		B	54	4	..	..	6	3	
Hydrocortisone (759 L & B)									
	cream non-greasy								
R	1%	5 gm	1	9ea	..	..	2	8	TS
R	1%	15 gm	3	7ea	..	..	5	4	TS
R	1%	5 gm	2	10ea	..	..	4	4	TS
R	2½%	15 gm	5	9ea	..	..	8	8	TS
R	2½%	5 gm	4	11ea	..	..	7	4	TS
R	1%	15 gm	11	7ea	..	..	17	4	TS
R	1%	20 mls	4	5ea	..	..	6	8	TS
R	1%	20 mls	6	11ea	..	..	10	4	TS
R	ointment greasy 1% ..	5 gm	1	9ea	..	..	2	8	TS
R	1%	15 gm	3	7ea	..	..	5	4	TS
R	1%	5 gm	2	10ea	..	..	4	4	TS
R	2½%	15 gm	5	9ea	..	..	8	8	TS
R	2½%	5 gm	4	11ea	..	..	7	4	TS
R	2½%	15 gm	11	7ea	..	..	17	4	TS
R	2½%	50 gm	35	1ea	..	..	52	8	TS
Kobold (637 Hunter)									
A	BC flashgun .. ..	..	77	10ea	19	0ea	135	10	
R	Z .. ..	..	11	10ea	2	11ea	20	9	
Delete	U .. ..	..	..	..	..	..	..	..
A	tripod, model 1 .. ..	..	97	8ea	23	10ea	170	4	
A	.. model 2 .. ..	..	108	10ea	26	6ea	189	9	
A	carrying cases .. ..	..	28	4ea	6	11ea	49	5	
A	case model IIB .. ..	..	118	4ea	28	10ea	206	4	
Lights Up (385 DG)									
	hair lightener .. ..	..	45	0	22	6	7	6	
Menformon (917 Organon)									
Delete	ampoules 0.1 mgm/ml 3 & 12	..	..	..	..	..	..	..
Delete	oil solution 1.0 mgm/ml 3, 6, 12 & vial 5 mls	..	..	..	..	..	..	..
Delete	oral solution 1 mgm/ml 10 mls	..	..	..	..	..	..	..
Delete	tablets 0.05 mgm 25, 100, 500	..	..	..	..	..	..	..
Delete	1 mgm 500	..	..	..	..	..	..	..
Delete	5 mgm 500	..	..	..	..	..	..	..
Delete	Menstrogen (917 Organon) ampoules 1 mil 12	..	..	..	..	..	..	..
Mini-Sax (1229 T&C)									
	tablets	150	18	0	..	..	2	0	
Morphy-Richards (863 M&R)									
	electric blankets								
A	Regent .. ..	..	..	..	..	..	111	6	
A	double .. ..	..	..	..	..	..	159	6	
A	Imperial .. ..	..	..	..	..	..	139	4	
A	double .. ..	..	..	..	..	..	199	6	
Delete	Popular both sizes	..	..	..	..	..	..	..
A	electric shaver .. ..	..	..	..	..	..	77	6	
A	hair dryer .. ..	..	..	..	..	..	69	7	
A	stand .. ..	..	..	..	..	..	6	7	
Mothaks (1229 T&C)									
	air freshener aerosol .. 5 oz	33	9	..	..	..	3	9	
Delete	Mylohex A (195 Brook Parker) tablets 25	..	..	..	..	..	..	..
A	Mylohex I (195 Brook Parker) tablets	100	3	3ea	..	..	..	..
Neo-Hombreol (917 Organon)									
	ampoules 5 mgm/ml .. 25	14	0ea	..	..	..	21	0	pls4B
Delete	6	..	..	..	..	..	..	..
	10 mgm/ml .. 25	21	6ea	..	..	..	32	3	pls4B
Delete	6	..	..	..	..	..	..	..
	25 mgm/ml .. 25	39	0ea	..	..	..	58	6	pls4B
Delete	6	..	..	..	..	..	..	..
	50 mgm/ml .. 25	64	0ea	..	..	..	96	0	pls4B
Delete	6	..	..	..	..	..	..	..
	100 mgm/2 mls .. 25	114	0ea	..	..	..	171	0	pls4B
Delete	6	..	..	..	..	..	..	..
Delete	suppositories 15 mgm 5, 25	..	..	..	..	..	..	..
A	Oestradiol (195 Brook Parker) 16 oz	8	6ea	..	..	..	†s1s4A	..	
Delete	Oestradiol (917 Organon) implants 10 mgm	..	..	..	..	..	..	..
Delete	Optrex (690 Keldon) introductory with eye-bath	..	..	..	..	..	..	..
Delete	Oradexon (917 Organon) solution for injection 1 mil	10	0ea	..	..	..	15	0	p1
Panadol (97 Bayer)									
R	tablets	100	102	0	..	..	12	9	
R	.. ..	500	39	6ea	..	..	59	3	
R	.. ..	2500	186	0ea	..	..	279	0	
Pernaemon (917 Organon)									
Delete	crudum ampoules 2 mls 3, 6 & 12	..	..	..	..	..	..	..
Delete	vial 10 mls	12	..	..	..	..	..	..
	forte ampoules 1 mil .. 25	60	0ea	..	..	..	90	0	
Delete	6	..	..	..	..	..	..	..
Delete	vial 5 mls	12	..	..	..	..	..	..
Prednisolone (759 L&B)									
R	tablets 1 mgm	30	2	6ea	..	..	3	9	TS
R	.. ..	100	6	10ea	..	..	10	4	TS
R	.. ..	500	26	10ea	..	..	40	0	TS
R	5 mgm	30	8	0ea	..	..	12	0	TS
R	.. ..	100	23	1ea	..	..	34	8	TS
R	.. ..	500	106	8ea	..	..	160	0	TS
Prednisone (759 L&B)									
R	tablets 1 mgm	30	2	6ea	..	..	3	9	TS
R	.. ..	100	6	10ea	..	..	10	4	TS
R	.. ..	500	26	10ea	..	..	40	0	TS
R	5 mgm	30	8	0ea	..	..	12	0	TS
R	.. ..	100	23	1ea	..	..	34	8	TS
R	.. ..	500	106	8ea	..	..	160	0	TS
Pregnyl (917 Organon)									
	ampoules, 100 in 1 mil	25	28	6ea	..	..	42	9	
Delete	6	..	..	..	..	..	..	..
	500 in 1 mil	25	61	6ea	..	..	92	3	
Delete	6	..	..	..	..	..	..	..
	1500 in 1 mil	25	145	6ea	..	..	218	3	
Delete	6	..	..	..	..	..	..	..
Progestin (917 Organon)									
	ampoules, 5 mgm/ml	25	18	2ea	..	..	27	3	
Delete	6	..	..	..	..	..	..	..
	10 mgm/ml	25	23	0ea	..	..	34	6	
Delete	6	..	..	..	..	..	..	..
	vial, 5 mls .. ..	..	..	..	..	..	..	..
	25 mgm/ml	25	36	8ea	..	..	55	0	
Delete	6	..	..	..	..	..	..	..
R	Pronel (451 F&J)	72	0	18	0	10	6		
Delete	Rolleicord (637 Hunter) with f/3.5 Xenar lens	..	..	..	..	..	..	..
A	Rolleiflex (637 Hunter) flashgun sizes 1, 2 and 3	102	6ea	25	0ea	178	10		
Rolleiflex (637 Hunter) camera									
A	with f/2.8F Zeiss Planar lens	1780	6ea	434	0ea	3104	9		
A	with f/2.8 Xenotar lens	1659	4ea	404	6ea	2893	6		
A	ever ready case	82	6ea	20	2ea	144	1		
A	with 3.5F Planar lens and coupled meter	1536	6ea	374	5ea	2679	2		
A	with 3.5F Xenotar lens and coupled meter	1411	4ea	244	0ea	2461	0		
A	with "T" Tessar f/3.5 lens	1007	6ea	245	7ea	1756	10		
A	with meter	1181	0ea	287	10ea	2059	4		
A	meter	173	10ea	42	4ea	303	1		
A	with 4 x 4 f/3.5 Xenar lens	547	0ea	135	11ea	972	5		
A	ever-ready case	42	4ea	10	4ea	73	10		
A	soft leather case	41	4ea	10	1ea	72	1		
Rolleiflex-Tele (637 Hunter) camera									
A	with f/4 Sonnar lens	2070	0ea	504	7ea	3609	7		
A	ever-ready case	99	10ea	24	4ea	174	1		
A	meter	173	10ea	42	4ea	303	1		
Savlon (649 ICI)									
	barrier cream 5 gm	17	0	4	3	2	6		
Delete	two-purpose barrier cream 50 gm	..	..	..	..	..	..	..
Septocin (195 Brook Parker)									
	cream No. 1	2	0	..	..	..	..	..
Silvagin (1030 Ravika)									
Delete	crude pine extract brown 4 oz	..	..	..	..	..	..	..
Delete	crude pine extract brown 1 lb	..	..	..	..	..	..	..
	crude pine needle extract 16 oz	60	0	30	0	10	0		
Corr.	.. ..	10	10	5	5	2	6		
	pine needle bath tablets 5	..	..	..	..	..	..	..
	.. ..	10	pkts	10	pkts	..	..	..
Delete	Stenediol (917 Organon) tablets 10 mgm 250	..	..	..	..	..	..	..
Streak Lightening (385 DG)									
	hair colour stick	39	0	19	6	6	6		
Sustanon (917 Organon)									
R	100 ampoules 1 mil	1	116	0	..	..	14	6	pls4B
R	.. ..	3	27	0ea	..	..	40	6	pls4B
R	250 ampoules 1 mil	1	23	8ea	..	..	35	6	pls4B
R	.. ..	3	63	4ea	..	..	95	0	pls4B
Delete	Tes P.P. (917 Organon) 10 mgm/ml 3 & 25	..	..	..	..	..	..	..
	Testosterone (917 Organon)	
	implant 200 mgm	31	6ea	47	3	pls4B
	105	0	52	6	17	6		
	Twin-Tan (451 F&J)	

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• Take the plunge: change to internal protection and you can swim any day of the month if you want to. Yes, with Lil-lets you can take a shower, enjoy your bath, do away with that 'off days' feeling entirely.

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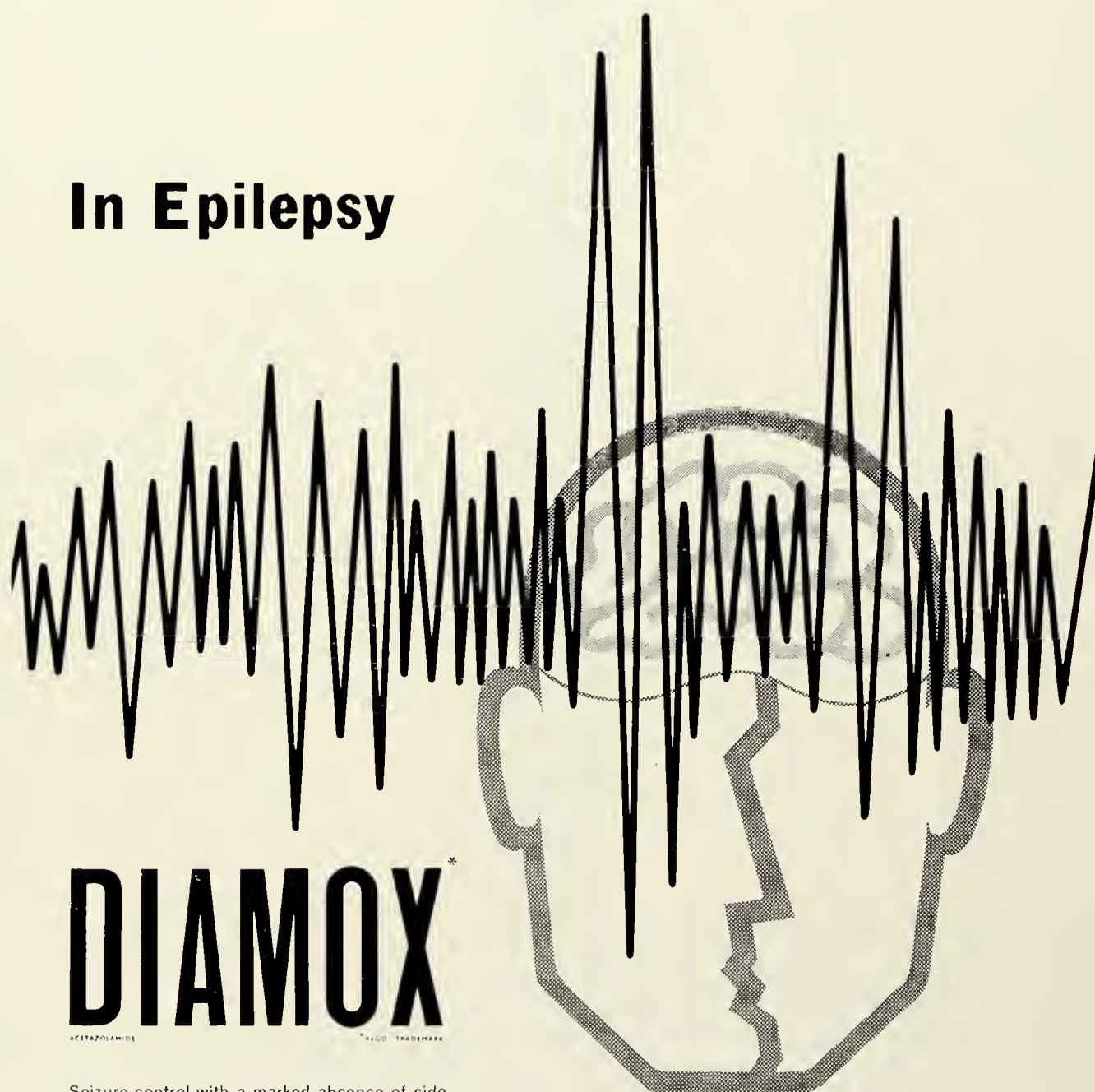
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PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," March 15 18-Nor-steroids and D-homo-steroids. CIBA, Ltd. 867,208.

Sulphonamides and preparations containing them. CIBA, Ltd. 866,785.

Chloramphenicol compositions with reduced toxicity. J. E. Vilax. 866,787.

Means for supplying small amounts of nutritional or therapeutic substances to ruminants. Commonwealth Scientific & Industrial Research Organisation. 866,924.

Piperazine salts. C. Pfizer & Co., Inc. 866,815.

Process for the manufacture of tablet granulations. CIBA, Ltd. 867,184.

Sulphonamides and method for preparing same. CIBA, Ltd. 866,838.

4-Metalhiazanone-1-oxides. Sterling Drug, Inc. 866,761.

Manufacture of hydrocyanic acid. Compagnie de Saint-Gobain. 867,227.

Process for preparing physiologically effective salts of the aminoalkyl derivatives of homophenothiazine. M. Protiva and V. Hach. 866,791.

Therapeutically active bacterial preparations. Biochemie, G.m.b.H. 867,232.

Process for the preparation of norcamphidine and its 2-substituted homologues. Knoll, A.G., Chemische Fabriken. 866,802.

Preparation of costus root oil and the products thereof. Council of Scientific and Industrial Research. 866,809.

Process for the manufacture of tetrafluoro-benzoquinone-1:4. Farbwerke Hoechst, A.G. 866,810.

Pyrimidines. Imperial Chemical Industries, Ltd. 866,842.

Sulphonamidopyrimidines. Imperial Chemical Industries, Ltd. 866,843.

Diagnostic compositions. Miles Laboratories, Inc. 867,192.

Process for the preparation of visnadin from ammi visnaga. Laboratoire Roger Bellon. 867,290.

Derivatives of heparin and processes for their production. Uelaf. 867,064.

Production of 2, 5-diarylamino-3, 6-dihydroterephthalic acid esters. Badische Anilin und Soda-Fabrik, A.G. 866,762.

Process for the manufacture of alphetoco-pherol and its acetate. F. Hoffmann-La Roche & Co., A.G. 867,166.

Process for the production of α , β -unsaturated acids of the vitamin A series. Farbenfabriken Bayer, A.G. 867,179.

Process for the production of pantothenate esters of chloramphenicol and products thereof. J. E. Vilax. 866,788.

Process for producing derivatives of chloramphenicol and of the pantothenates. J. E. Vilax. 866,789.

Piperazine derivatives. Wallace & Tierman, Inc. 867,273.

Process for the manufacture of 6-chloro-7-sulphanyl 1:3: 4-dihydro-1:2:3-benzo-thiadiazine-1:1-dioxide and its salts. CIBA, Ltd. 867,073.

Manufacture of sulphonamides. CIBA, Ltd. 866,786.

Process for the manufacture of quaternary phosphonium compounds. Farbwerke Hoechst, A.G. 866,926.

Method for the preparation of nitrilo-triphosphoric acid esters. Joh. A. Benekiser, G.m.b.H. 867,195.

Insecticidal compositions and phosphorylvinyl phosphates for use therein. Monsanto Chemical Co. 866,817.

Composition for combating rodents, particularly rats and other noxious animals, and a process of preparing the said composition. Bakteriologisk Laboratorium Ratin, A.S. 866,837.

Apparatus for controlling or assisting respiration. British Oxygen Co., Ltd. 866,758.

Fungicidal compositions. Bataafse Petroleum Mij. N.V. 867,285.

Process for preparing 3 nitro-azacyclo-alkanone-2-N-carbochlorides. Stamcarbon, N.V. 867,268.

Preparations for the combating of nematodes. Schering, A.G. 866,970.

Method of producing N-substituted products of 2, 4-diamino-1, 3, 5-triazine. L. Groth (trading as Ludwig Heumann & Co.).

Eye-shades. E. H. Parmenter. 867,349.

Containers for toilet salves and the like. Laugh-ton & Sons, Ltd. 867,102.

Hot-water bottles. J. Hubl. 867,105.

Patient lifters. Zimmer Orthopaedic, Ltd. 867,149.

Ampoule-type glass container for receiving decomposable or instable liquids and methods for producing same. F. A. H. Kock. 867,270.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster
April 2-8									
Alka-Seltzer	..	1	2	2	1	1	1	1	1
Anadin	..	5	3	3	5	4	5	6	4
Andrews liver salts	1	—	2	—	2	2	2	2	2
Andrexx	..	3	—	3	—	—	—	—	—
Anne French	..	—	1	—	—	—	—	—	—
Askit powders	..	—	—	12	—	—	—	—	—
Aspro	..	4	4	4	4	3	4	4	3
Colorific	..	3	—	—	—	—	—	—	—
Cuticura	..	2	2	—	2	—	—	—	2
Delrosa	..	—	—	—	—	—	—	—	1
Delsey	..	—	—	—	—	3	—	3	—
Dramal	..	1	1	1	1	—	1	1	1
Gem shampoo	..	—	—	—	—	—	—	2	—
Haze aerosol	..	1	—	—	—	—	—	—	—
Immac	..	—	—	—	—	—	1	—	—
Imperial Leather soap	..	3	2	4	3	4	3	3	3
Iodised Balmosa	..	—	—	1	—	—	—	—	—
Klenex	..	—	—	1	—	—	—	—	—
Loxene hair cream	1	1	1	1	1	1	1	1	1
Milk of Magnesia tablets	..	2	2	—	—	—	—	—	2
Pepsodent tooth-paste	..	2	2	2	2	2	2	2	2
Phillips tooth-paste	..	—	—	—	—	—	—	—	2
Polly Roll	..	1	1	1	1	1	1	1	1
Rinstead pastilles	..	1	1	1	1	1	1	1	1
Steradent	..	3	2	2	2	2	1	2	2
Topeat	..	5	1	—	1	5	—	—	—
Velouty	..	2	—	—	—	—	—	—	—
Warriek smokers' cough pastilles	..	—	—	—	—	2	—	—	—

WILLS

MR. A. W. BROMLEY, M.P.S., 6 Cornbury Road, Edgware, Middlesex, left £15,911 (£15,841 net).

MR. F. R. COMER, M.P.S., 59 Westbury Hill, Westbury-on-Trym, Bristol, left £1,592 (£1,483 net).

MR. G. M. CRUICKSHANK, M.P.S., The Brae-heads, Victoria Terrace, Turriff, Aberdeens (former provost of Turriff), left personal estate in England and Scotland valued at £21,709.

MR. S. B. DAVIES, F.P.S., 2 Springfield Avenue, Weston-super-Mare, Somerset, left £11,085 (£11,003 net).

MR. W. S. GARTH, M.P.S., 86 Astley Street, Tyldesley, Manchester, left £3,278 (£3,182 net).

MR. F. J. GILES, M.P.S., 20 Montpelier Street, London, S.W.7, left £3,917 (£2,800 net).

MR. J. H. GRIFFITH, M.P.S., The Pharmacy, Church Street, Penryn, Cornwall, Merioneth, left £15,606 (£14,926 net).

MR. J. P. HAWORTH, M.P.S., 28 Kendal Avenue, Bispham, Blackpool, Lancs, left £11,315 (£9,326 net).

MR. W. H. HENSHAW, M.P.S., 128 Park Lane, Poynton, Stockport, Ches, left £1,412 (£1,366 net).

MR. F. W. HOCKIN, M.P.S., 7 Netherleigh Mansions, Shrubbery Road, Weston-super-Mare, Somerset, left £2,205 (£1,976 net).

MR. G. E. JESSON, 176 Bristnall Hall Road, Langley, Oldbury, Worcs. (former Birmingham area manager and Birmingham area chemical sales manager, Midland Region, Imperial Chemical Industries, Ltd.) left £3,354 (£3,302 net).

MR. V. W. LEVY, M.P.S., 123 Cambridge Road, Middlesbrough, Yorks, left £26,501 (£23,601 net).

MR. D. MURRAY, M.P.S., 18 Queen's Drive, Broad Green, Liverpool, 15, Lancs, left £9,697 (£7,273 net).

CONTEMPORARY THEMES

DRIED PYRETHRUM FLOWERS. Sampling, from bulk. *Trop. Science*, 1960, ii. 4.

ZOO MEDICINE and human medicine. *New Scientist*, March 16.

PHARMACEUTICAL INDUSTRY. Management efficiency in the. *Manf. Chemist*, March.

FERTILISERS and plant nutrients. *Manf. Chemist*, March.

PHENIPRAZINE. Clinical evaluation of, in angina pectoris. *Brit. med. J.*, March 18.

ETRYNIT. Clinical assessment of, for angina pectoris. *Brit. med. J.*, March 18.

ENDOCRINE PHARMACOLOGY. *Science*, March 3.

GUANETHIDINE. *J. Amer. med. Ass.*, February 18.

ELECTRICAL ANAESTHESIA for major surgery. *J. Amer. med. Ass.*, February 18.

HISTAMINE. The enigma of. *J. Amer. med. Ass.*, February 18.

OXYPHENBUTAZONE. Toxicity of. *J. Amer. med. Ass.*, February 18.

ANTIEMETICS. Use of, before surgery. *J. Amer. med. Ass.*, February 25.

BRETYLIUM. Interaction of, with pressor agents. *Lancet*, 1961, i. 593.

TOXICITY and anti-leukæmic effectiveness, in mice, of 4-amino-4-deoxy-N 10-methyl-5,6,7,8-tetrahydropteroylglutamic acid (tetrahydroamethopterin). *Nature*, March 18.

OXYTETRACYCLINE BIOSYNTHESIS. Genetic control of. *Nature*, March 18.

ACRIFLAVINE. Elimination of transmissible drug-resistance by treatment with. *Nature*, March 18.

POLIOMYELITIS RESEARCH. Recent advances in. *Amer. J. Pharm.*, January.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Tuesday, March 28

BRIGHTON TECHNICAL COLLEGE, SCHOOL OF PHARMACY, main hall, Richmond Terrace, Brighton, 7, at 7 p.m. R. H. Thompson on "Prevention and Control of Pests in The Storage of Food-stuffs and Drugs."

NORTH STAFFS BRANCH, PHARMACEUTICAL SOCIETY, North Stafford hotel, Stoke-on-Trent, at 7.45 p.m. Film show presented by Mr. G. R. S. Mee.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Royal Victoria hotel, Sheffield, at 8 p.m. Ladies' night.

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Water End Barn, St. Albans, at 8 p.m. Annual dinner and dance.

Wednesday, March 29

ANGLESEY, NORTH CAERNARVONSHIRE AND COLWYN BAY BRANCH, PHARMACEUTICAL SOCIETY, Imperial hotel, Llandudno, at 7.15 p.m. Dinner and dance.

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Hendon Technical College, at 7.30 p.m. Dr. K. G. A. Pankhurst on "The Story of Soap and the Growth of Modern Synthetic Detergents."

SOCIETY FOR ANALYTICAL CHEMISTRY, Chelsea College of Technology, Manresa Road, Chelsea, London, S.W.3, at 6 p.m. Demonstration of laboratory-made equipment.

Thursday, March 30

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY, Imperial hotel, at 7.45 p.m. Annual meeting.

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY, Queen Elizabeth College, Campden Hill Road, London, W.8, at 6.15 p.m. Conversation: "Microbiological Apparatus and Methods."

Advance Information

INTERNATIONAL PHOTO FAIR, Olympia, London, W.14, May 29 to June 3.

LABORATORY APPARATUS AND MATERIALS EXHIBITION, Royal Horticultural Society's New Hall, London, W.1, June 19-22.

MEDICAL EXHIBITION, Princes Hall, Broad Street, Birmingham, June 12-16.

MANUFACTURERS' ACTIVITIES

A Record of Rechargings. — The number of pressure charges used and returned to the factory of Nuswift, Ltd., Elland, Yorks, for recharging during 1960, reached a record figure of 46,596.

Laboratory Apparatus for Moscow. — Quickfit & Quartz, Ltd., Stone, Staffs, are exhibiting their entire range of scientific glassware at the British Trade Fair in Moscow, May 19 to June 4.

Products for Hostellers. — Izal soft tissue toilet rolls are part of the equipment of an Indo-European Hostelling Expedition that is leaving England in July to travel 17,000 miles overland to India and back for the purpose of setting up youth hostels over one of the most difficult routes in the world.

Antibiotics for Expeditions. — The Lederle Laboratories division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, has provided antibiotics and other products for two expeditions that are leaving Britain this year for the Far East. They are a group from the Edinburgh Royal Botanical Gardens visiting Upper Burma and a group visiting the Kanjirōba Himal area of North-eastern India.



"RESTFUL LUXURY" IN A SHOWROOM: Mornay, Ltd., have expanded their showroom facilities to include almost the entire first floor of their building, Mornay House, Regent Street, London, W.1. The company aimed at a showroom that would "have that restful atmosphere of warmth and luxury yet be functionally designed to meet the needs of the busy people employed in the trade today." The walls are in a delicate blush pink, with deeper shades in the velvet curtains and specially designed carpet. Hand-carved period chairs blend with modern functional glass-topped tables.

A Clash of Blades. — A football match between Gillette Safety Razor Co., Great West Road, Isleworth, Middlesex, and the Wilkinson Sword, Ltd., Sword Works, Southfield Road, London, W.4, manufacturers of Wilkinson safety razor blades, took place at Southfield Place, Acton, London, recently. The result was a win for the Gillette team by 6 goals to 3, but such was the atmosphere of friendliness amongst the representatives of the competitive manufacturers that the losers presented the conquerors with a trophy.

A House-warming. — David Taylor & Son, Ltd., manufacturers of Peacock brand glucose and blackcurrant health drinks, recently moved into new quarters at 54 Southwark Street, London, S.E.1. To mark the occasion they had a house-warming party at which their customers and friends in considerable numbers were guests. A feature of the

evening was the display of a 180-lb. cake replica of the building. The cake was afterwards presented to Guy's Hospital for the enjoyment of patients.

Exports Up 40 per cent. — A 40 per cent. increase in exports of vacuum flasks was achieved in 1960 by Vacco, Ltd., Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1, whose previous year's sales overseas were in themselves a record. Commenting on the results, Mr. Leslie-Smith (managing director) said: The best sales were achieved in the most distant markets, Australia and New Zealand, where the competition included flasks of Japanese origin.

Careers in Pharmaceutical Research. — The latest booklet in the series *Careers for Scientists in I.C.I.*, deals with pharmaceutical research. As is pointed out in the introduction the discovery of new and better drugs requires a combined effort by chemists, biologists, biochemists and pharmacists. The booklet, in describing what each of the scientists is concerned with, mentions that there is ample scope for the practice of pharmacy. One of the

PRINT AND PUBLICITY

PUBLICATIONS

Price Lists

EVANS MEDICAL, LTD., Speke, Liverpool, 24: Price list A—drugs, fine chemicals, pharmaceuticals, counter adjuncts, medical and veterinary products, March 1961. Pp. 100.

WILLIAM RANSOM & SON, LTD., Hitchin, Herts: Price list 1961. Pp. 86; Export price list 1961. Pp. 80.

Periodicals

CHILEAN IODINE EDUCATIONAL BUREAU, Chile House, Ropemaker Street, London, E.C.2: *Current Iodine Literature*. Vol. 7, No. 18. 1960. Pp. 16. Publication ceases with this issue.

EASTMAN KODAK CO., Rochester, New York, N.Y., U.S.A.: *Monthly Abstract Bulletin*. Vol. 47, No. 1. January 1961. Pp. 80.

THE MOND NICKEL CO., LTD., Thames House, Millbank, London, S.W.1: *The Nickel Bulletin*. Vol. 34, No. 1. January 1961.

Catalogues

ELECTRONIC INSTRUMENTS, LTD., Richmond, Surrey: pH meters by EIL.—descriptive catalogue. Pp. 14.

G.B. FILM LIBRARY (Rank Precision Industries, Ltd.), 1 Aintree Road, Privale, Greenford, Middlesex: *Movie-Pak Catalogue*. 1960/61. Pp. 51.

PRESS ADVERTISING

BIOMETICA, LTD., Elstree Way, Boreham Wood, Herts: Bu-To. In *Woman*, *Woman's Own*, *Woman's Mirror*, *Woman's Weekly*, *Woman's Realm*, *Woman's Day*, *Woman's Illustrated*, *Marilyn*, *Valentine*, *Roxy*, *Red Letter*, *Red Star*, *Secrets*, *Family Star*, *My Weekly*, *Romeo*, *Bliss*, *Marty*, *Mirabelle*, *Queen*, *Everywoman*, *Modern Woman*, *She*, *Woman's Journal*, *Woman and Beauty*, *Vogue*, *True Story*, *True Romances*, *Photoplay*, *Woman's Story Magazine*, *True Magazine*, *Sincerely*, *Honey*, *Vanity Fair*, *Flair*, *Weekend*, *Tit Bits*.

BRITISH CHEMOTHEUTIC PRODUCTS, LTD., Kemtheutic House, Grant Street, Bradford, Yorks: Biskoids. In *Daily Mirror*, *Daily Mail*, *Daily Express*, *Daily Herald*, *Woman's Own*, *Woman's Realm*, *Woman's Illustrated*, *Woman and Home*, *Woman and Beauty*, *Modern Woman*, *Good Housekeeping*, *True Story*.

BURGOYNE BURBIDGES & CO., LTD., 274 Ilbert Road, London, S.E.15: Vitasun capsules. In *Provincial Press*, yachting brochures, sports meeting brochures, coastal town theatre programmes.

most satisfying features of the pharmacist's work in a research organisation being the close association he has with a new drug from the time its activity is observed until it is in constant use.

Staff Conditions a Top Priority. — Speaking in Birmingham recently at a conference arranged by the Industrial Welfare Society, Birmingham, Dr. G. B. Baird (medical officer for the retail staffs of Boots, Ltd.) said that his company's shop development programme had given top priority to improving staff working conditions. "Cooking facilities are always provided to encourage a better diet for the staff. In the new and largest branches full canteen and dining room facilities are provided by professional cooks with a choice of menus at subsidised rates. In the medium sized branches a cook or cleaner will prepare food brought by the staff. In individual cases improvement of the diet has resulted in a lower sickness rate and cure of some minor complaints all too prevalent in shop life, such as recurring faints and chronic fatigue." The increasing installation of mechanical loaders and service lifts for stock handling was another example of that progressive outlook.

CUXSON, GERRARD & CO., LTD., Oldbury, Birmingham: Carnation corn caps. In national Press, Summer months.

DOMESTOS, LTD., College Works, Albion Road, Newcastle-on-Tyne: Stergene. In Press in non-T.V. areas. Commencing April 16.

ELLANBY LABORATORIES, LTD., 197 Lyham Road, London, S.W.2: Night Tan liquid cream. In *Daily Express*, April 25.

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1: Pronel. In *Woman*, *Woman's Mirror*, *Woman's Realm*, *Vogue*, *Woman's Own*, *Vanity Fair*, *Woman and Beauty*; *Twin-Tan*. In *Daily Sketch*, *Sunday Pictorial*, *Reveille*, *Weekend*, *Woman's Own*, *Woman and Beauty*, *Vanity Fair*.

NEWTON, CHAMBERS & CO., LTD., Thorncliffe, Sheffield: Izal soft toilet tissues. In *Woman*, *Woman's Own*; Zal. In *Eire* and *Channel Islands Press*.

SPRATT'S PATENT, LTD., 41 Bow Road, London, E.3: Bonio, Mixed Ovals. In *Daily Mirror*; Topcat. In *T.V. Times*; Topdog. In *T.V. Times*, *The Viewer*, *Television Weekly*, *Look Westward*.



"DISPENSER" DISPLAY: Counter display and sales outer produced by George Spencer & Sons, Ltd., Kynance Place, Gloucester Road, London, S.W.7, for Breck shampoos.



Modern girls are going for NIKINI

NIKINI advertising reaches *millions* of modern girls—and they're deciding it's just the thing for *them*.

The NIKINI—a brief, streamlined garment of fine nylon film—holds disposable NIKINI PADS in place without pins, loops or bulges. NIKINI PADS cost far less than any other.

Attractive packs and display material help your NIKINI sales. Details from ROBINSON & SONS LIMITED (NIKINI SALES DEPARTMENT), WHEAT BRIDGE MILLS, CHESTERFIELD.

NIKINI GARMENT **6/11** NIKINI PADS **1/3** DOZ



the lady's
not for
burning...

(she takes **VITASUN** capsules

for suntan without sunburn)

She, and more and more people everywhere take Vitasun! Big popularity gains in the U.K.; and in Holland—Belgium—Luxembourg—Switzerland—South Africa—East Africa—Australia—New Zealand.

Growing demand at the Olympics, too. Used by the British 1960 Team at Rome and Naples—South African 1960 Olympic Team at Rome—as well as for athletic meetings in South Africa and elsewhere. Supplies already requested for the 1962 British Games at Perth.

Big sales also on ships on sunshine routes, Orient, P. & O. and Royal Mail Lines—and through NAAFI for Middle East troops and their families.

LIVELY ADVERTISING SUPPORT

- Provincial Press
- Sports Meeting Brochures
- Yachting Brochures
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PLUS

Strong Editorial Backing

**MAXIMUM PROFITS IF YOU
STOCK UP IN GOOD TIME**

**VITASUN
CAPSULES**

(Patents applied for in U.K., France, Canada and U.S.A.)

Retail Price: 5/6 for box of 1 doz. Capsules

Manufactured and Supplied by:

BURGOYNE BURBIDGES & CO. LTD.

274 Ilderton Road, London, S.E.15.

Tel. New Cross 7144

now is the time to stock up with

'NIAGARA'
Blackcurrant Drink

THE
BLACKCURRANT DRINK
IN THE
EYECATCHING
NEW PACK

Made from the finest blackcurrants and pure cane sugar, 'Niagara'—rich in Vitamin C—is the ideal health drink for both young and old. Make sure you have ample supplies, because 'Niagara' has 'year round' appeal. Display material available.



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AP.130



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increased demands which

- ★ TELEVISION FILM
 - ★ NATIONAL PRESS
 - ★ LONDON TRANSPORT
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CREATE

Be sure of satisfying your customers
requests. Display VELOUTY
POWDER CREAM on your
counter NOW

PRICES : —

TUBES : No. 2	No. 3
TRADE : 8/- doz.	13/2 doz.
RETAIL : 1/4 each	2/3 each
JARS	
TRADE : 19/2 doz.	RETAIL 3/3

FROM YOUR USUAL WHOLESALER OR DIRECT :—



DIXOR LTD.

ST. LEONARD'S RD. MORTLAKE, LONDON. S.W. 14

*Soft, Supple Skin
ensured with*



RETAILS AT

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SPLENDID FORMULATION

NON-GREASY

READILY ABSORBED

**ATTRACTIVELY
PACKED**

VI-LAN

Lanolin Cream

Soothing and Cooling

**Yields 42% on selling price
when you buy now on bonus terms**

**3 dozen lots 9/- per dozen,
plus 25% purchase tax**

**Bonus—twelve for the price
of eleven**

**DISPLAY & RECOMMEND VI-LAN FOR
ELEGANT HANDS & SKIN,
TO ENSURE REPEAT PROFITABLE BUSINESS**

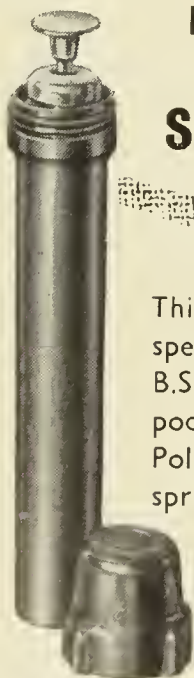
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Pocket-Size INSULIN SYRINGE CASE



This new, plastic syringe case, specially designed for the new B.S.I. 1619 Insulin Syringe, is pocket-size and spirit-proof. Polythene washer and retaining spring hold syringe firmly in the spirit. For syringes up to 2cc size.



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PRESCRIPTION BOTTLES

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By drawing on the Company's century of experience, chemists are able to specify special grades of Pattinson's (Regd. Brand) magnesium carbonates and oxides—confident that all deliveries will maintain the same high standards of quality. From the laboratory through to production, Washington chemicals may be depended upon for absolute consistency.

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Telegrams: Chemical, Washington Station, County Durham

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Telephone: MONarch 6898

MANCHESTER: 220/222 Corn Exchange Buildings, Cathedral Street, Manchester, 4.

Telephone: BLAckfrairs 4401

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'LITTLE WILLIE' ON THE MARCH AGAIN!

FROM
CHEMISTS
ONLY

for "CARNATION"
the most popular corn remover

On 10ft. high posters in the big cities and towns and advertisements in the National Press this summer, our famous tramp will be featuring CARNATION CORN CAPS and advertising them as "FROM CHEMISTS ONLY."

All you have to do is to ensure you have him on display all the time and there will be regular easy sales!

CARNATION CORN CAPS—A "BEST SELLER"

Retail 1/3 Packet (including P.T.)

Trade 8/3 Doz. + 2/1 Tax. Generous bonus on quantities.

Also Recommend: CARNATION CALLOUS CAPS—8/3 + 2/1 TAX

A PRODUCT OF *Cuxson, Gerrard & Co. Ltd.* OLDBURY, BIRMINGHAM

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AN EXAMPLE OF UNPRECEDENTED SUCCESS IS AYRTONS BRONCHIAL EMULSION WHICH HAS PROVED EXTRAORDINARILY POPULAR WITH OLD AND YOUNG ALIKE. THE HANDSOME PROFIT MARGIN MAKES IT ATTRACTIVE TO THE PHARMACIST ALSO. IT IS OFTEN DIFFICULT TO DISCOVER THE REASON WHY A PARTICULAR LINE BECOMES POPULAR IN FACE OF SHARP COMPETITION WHILST OTHER VERY GOOD PRODUCTS FAIL TO 'CATCH ON'. WE DO NOT CLAIM TO HAVE SOLVED THIS MYSTERY, WE SIMPLY ACKNOWLEDGE ITS EXISTENCE AND ADJUST OUR AIMS AND OBJECTS IN ACCORDANCE WITH IT.

AYRTONS BRONCHIAL EMULSION
THE Chest Protector
FOR ALL THE FAMILY
EXTRA STRONG
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BRONCHIAL EMULSION
SWEETENED AND SPICED TO THE TASTE OF CHILDREN
EFFECTIVE FOR ALL BRONCHITIS

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High Quality Glassware

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Designers and Manufacturers of



FLEX-STRAW

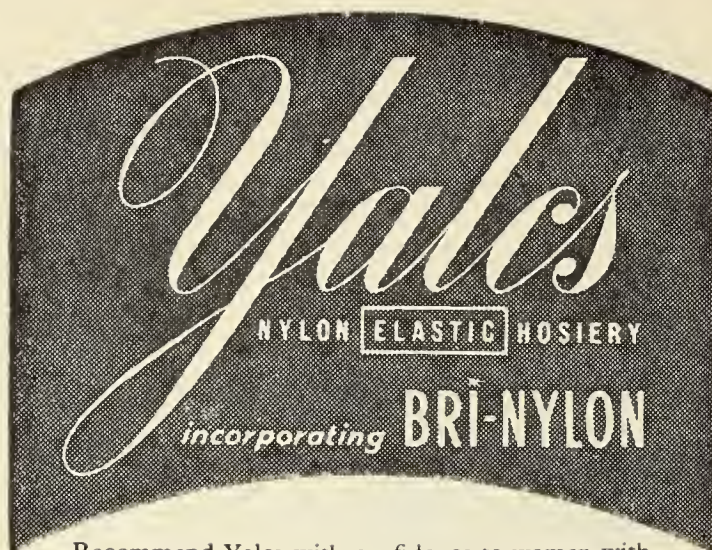
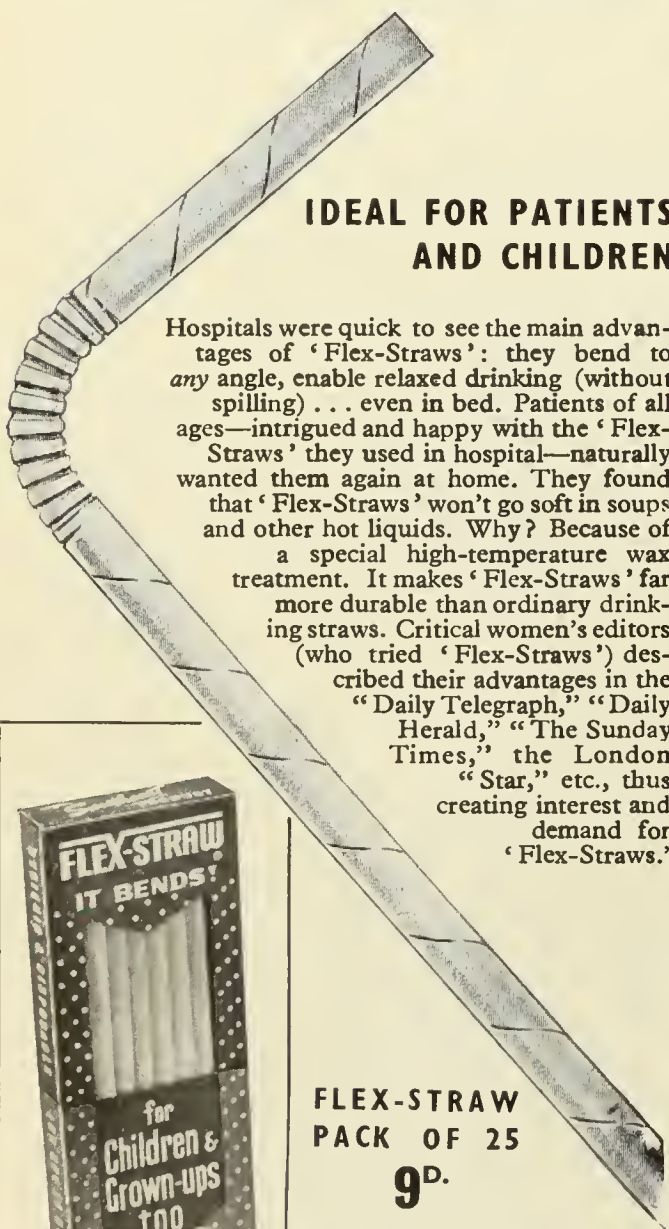
**the new Drinking
Straw that bends
to any angle!**

**IDEAL FOR PATIENTS
AND CHILDREN**

Hospitals were quick to see the main advantages of 'Flex-Straws': they bend to any angle, enable relaxed drinking (without spilling) . . . even in bed. Patients of all ages—intrigued and happy with the 'Flex-Straws' they used in hospital—naturally wanted them again at home. They found that 'Flex-Straws' won't go soft in soups and other hot liquids. Why? Because of a special high-temperature wax treatment. It makes 'Flex-Straws' far more durable than ordinary drinking straws. Critical women's editors (who tried 'Flex-Straws') described their advantages in the "Daily Telegraph," "Daily Herald," "The Sunday Times," the London "Star," etc., thus creating interest and demand for 'Flex-Straws.'

**FLEX-STRAW
PACK OF 25
9^d.**

Manufactured by:
**HYGIENIC DRINKING STRAW
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Telegrams:
DRINKRITE FISHPONDS BRISTOL



Recommend Yalcs with confidence to women with actual or incipient varicosities. Yalcs give all the therapeutic support of true two-way stretch—without putting a strain on vanity!

Yalcs are available ex stock — at full trade discount—in two types:

Superfine Retailing at 63/- pair

SERVICE Retailing at 53/3 pair

Yalcs Service may be supplied against N.H.S. prescription in Nylon Elastic Yarn (Lightweight) Two-Way stretch.

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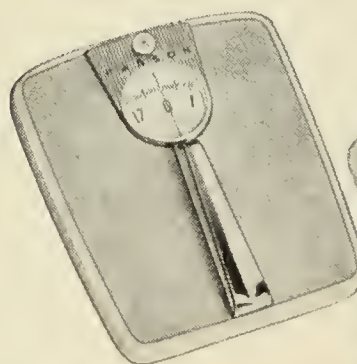
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Quality Scales Since 1888
Made in U.S.A.



Can be hung
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Exclusive equaliser bar mechanism enables this scale to weigh accurately on carpeted or uneven floors in bedrooms or bathrooms. Oversize dial you can see and be sure.

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Obtainable from Selected Wholesalers or:—

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this
child's life

STUDIO PHOTOGRAPH

may depend on the safety of 'Distaval'

Consider the possible outcome in a case such as this—had the bottle contained a conventional barbiturate. Year by year, the barbiturates claim a mounting toll of childhood victims. Yet it is simple enough to use a sedative and hypnotic which is both highly effective . . . and outstandingly *safe*. 'Distaval' has been prescribed for over three years in this country, where the accidental poisonings rate is notoriously high; but there is no case on record in which even gross overdosage with 'Distaval' has had harmful results.

'DISTAVAL'

THALIDOMIDE

TRADE MARK

'DISTAVAL'

25 mg. tablets

PACK	TRADE PRICE
Tube of 24	2s. 6d.
Bottle of 100	8s. 4d.
500	40s. 0d.
1,000	77s. 6d.

'DISTAVAL' FORTE

100 mg. tablets

PACK	TRADE PRICE
Tube of 12	3s. 8d.
Bottle of 100	22s. 4d.
500	105s. 8d.
1,000	204s. 0d.

DC(BL)

THE DISTILLERS COMPANY (Biochemicals) LIMITED
Broadway House, The Broadway, Wimbledon, London, S.W.19 Telephone: LIBerty 6600
Owners of the trade mark 'Distaval'

PPH 20/60

**BOTANICALS
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**ESSENTIAL OILS
SPICES
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STROPHANTHIN-G

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**ATROPINE
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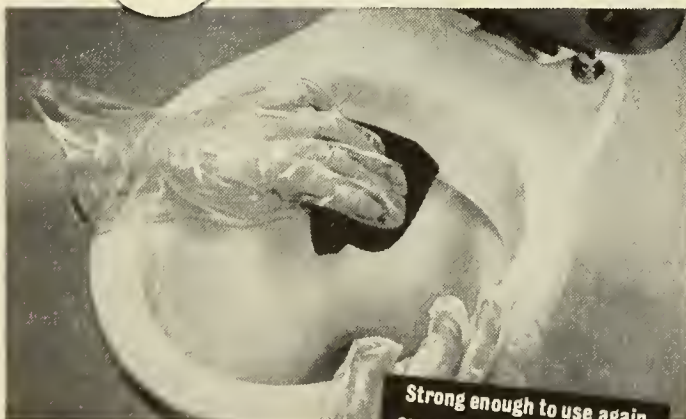
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POLYTHENE PROTECTIVE GLOVES



**Strong enough to use again
Cheap enough to throw away**

New H. & A. Poligloves have hundreds of uses in and around the home. CAR MAINTENANCE, GARDENING, FOOD PREPARATION, HOUSEHOLD WORK, LAYING FIRES, HOME HYGIENE. Washable and reusable they are ideal wherever hygiene and cleanliness is important, and especially useful for handling food. H. & A. Poligloves, which fit either hand, come in three sizes, small, medium and large. They are packed in striking display boxes, each containing 1 doz. medium, 1/2 doz. large, 1/2 doz. small size individual packs holding 10 gloves for 2/11.

THERE'S EXTRA PROFITS AND BUSINESS FOR YOU!

So order today from your usual wholesaler or from the sole manufacturers

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Grams: Howay, Manchester**



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MAKE A
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Colby Products, Ltd. are recognised as manufacturers of the very finest surgical hosiery. Firm support, comfort and very fine appearance are particular features of Colby products. The full normal range includes hose in Superfine Nylon Yarn, Nylon Yarn, Nylon Net and Elastic Yarn. Nylite, the latest addition to the Colby range is a lightweight surgical stocking knitted from Nylon Elastic Yarn.

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ILODERM

*a unique self-sterile Ointment that compares with
no other in the treatment of:—*

**BURNS •
BEDSORES •
IMPETIGO •
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DERMATITIS •
CRACKED NIPPLES •**

ask your usual wholesale House for supplies

ILON LABORATORIES

LORNE STREET, HAMILTON, LANARKSHIRE



Have you
ordered my
DENTINOX yet?

NATIONAL ADVERTISING BREAKS THIS MONTH

Any minute now parents will be coming to YOU for Dentinox — the new, soothing rub for teething babies. And why? because Dentinox will be nationally advertised to 89,500,000 readers and viewers in the press, in leading women's magazines and on eight T.V. regions right through the year!

HURRY!

Introductory BONUS

**CLOSES MAR. 31st
12 for the price of 11**

Retail price £1. 19. 1 plus P.T.
cost £1. 3. 7 plus P.T.

Profit 15. 6 per dozen

You make 1/3½d. profit on each bottle

Normal terms: Retail Price 3/9 a bottle
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telling, selling counter display
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Today... more and more women

Even before Metercal came to
Britain, 1 out of 3 women in this
country had tried to slim at
some time. And almost half of
those said that they found
slimming difficult in some way

WHY METERCAL IS HAVING SUCH SUCCESS

METERCAL provides a low-calorie diet scientifically formulated as a safe, reliable way of losing weight.

METERCAL contains all the nutrients needed by a person on a reducing schedule.

METERCAL users do not feel hungry: Metercal gives high appetite satisfaction.

METERCAL contains no drugs, no appetite depressants, no artificial "bulking" agents.

*Metercal is nutritionally sound,
clinically tested*

are trying to slim



METERCAL BRINGS YOU...

- * Fast initial sales (strong advertising support)
- * Steady repeat sales (customers use up to one $\frac{1}{2}$ lb can per day)

TRADE PRICE 71/- per case (1 doz. cans) RETAIL PRICE 8/6 per can

Cost £3.11.0 | Sell at £5.2.0 | Your profit £1.11.0

*Made up in cases of 12 cans of one flavour:
4 cans of each flavour: or 4 x 3-can Starter Packs*

DISPLAY THE 3-CAN "STARTER PACK" and prompt "first-time" sales



Metercal's spring advertising is running NOW in newspapers, women's magazines and on TV

KEEP AMPLE STOCKS OF METERCAL



Mead Johnson

You owe it to yourself to ensure that the package you sell has consumer acceptance, builds up consumer goodwill, and reflects the integrity of your organisation.

Let our experience in the manufacture and packing of

TABLETS



POWDERS



LIQUIDS



OINTMENTS

assist you to achieve this object and increase your sales this year and every year.

You're in safe hands when



do the job

PHARMACAL SUPPLIES LTD.

Pharmaceutical Manufacturers **GREEN LANE, HOUNSLOW, Middlesex**

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**TANNIC
GALLIC
PYROGALLIC**

All qualities

**THE BRITISH DYEWOOD
CO LTD.**

GLASGOW

*Today's best value in
heavy gauge* **STEEL
SHELVING**



£3.15.0

DELIVERED FREE!

- Brand new — Manufactured in our works.
- Shelves adjustable every inch.
- Heavy gauge shelves will carry 400 lb. each.
- Stove enamelled dark green.
- 6 shelves per bay—Extra shelves 8/- each.
- Quantity discounts.

**THE ONLY HEAVY GAUGE
SHELVING AT THIS PRICE**

Other Sizes available. Also available in white at £5 per bay.

N. C. BROWN LTD.

Shelving Division :
HEYWOOD LANCs.
Tel: 69018 (6 lines)

Vegetex

THE VEGETABLE TREATMENT FOR RHEUMATISM

VEGETEX is a concentrated powder prepared by dehydrating selected vegetables in closed circuit at low temperature. Being alkaline, VEGETEX counteracts the over-acidity associated with rheumatic conditions.

YOU CAN RECOMMEND VEGETEX WITH CONFIDENCE

We shall be glad to send you literature on request.

Retail Prices:

40 tablets 3/10 • 80 tablets 7/3
160 tablets 12/1 • 500 tablets 30/9

MODERN HEALTH PRODUCTS LTD. Davis Road • Chessington • Surrey

Other Modern Health Products include: BIOBALM • VECON • NATEX • GARLODEX

VITAMIN D3

PURE CRYSTALLINE D3

o-Cresol- α -glycerol-ether
(Mephenesin)
Guaiacol- α -glycerol-ether

Manufacturers:
PEBOC
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Sales Office:
629/630 TOWER BUILDING
LIVERPOOL 3 • ENGLAND

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A **NEW** DISPLAY for

VULFIX

SHAVING BRUSHES

Each brush Guaranteed for 2 years



FREE with PARCEL No. 910 containing...

4 pcs. No. 20 PURE BRISTLE BRUSH
Each in window carton RETAIL PRICE **4/9** EACH
4 pcs. No. 21 PURE BRISTLE BRUSH
Each in acetate tube RETAIL PRICE **6/6** EACH
4 pcs. No. 22 PURE BRISTLE BRUSH
Each in acetate tube RETAIL PRICE **8/6** EACH
W.S.P. **44/6** Plus P.T. RETURNS **79/-**

PROGRESS SHAVING BRUSH (VULFIX) LIMITED

MOTTRAM STREET, STOCKPORT, CHESHIRE.

Tel. STO 2147

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Malt and Cod Liver Oil

With the flavour that CANNOT be copied

We are the premier firm supplying
Chemists "own name" packs

IMPORTANT

Make sure of your stocks
against the possibility of
severe Winter epidemics.

JEFFREYS, MILLER & COMPANY LIMITED, LEYLAND MILLS WIGAN



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TORBET
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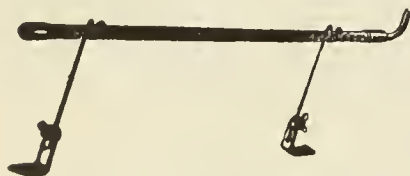


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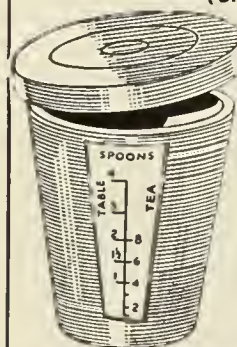
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MANUFACTURING BUSINESS required, preferably London, especially one with single product, neglected product with wide appeal, toilet, proprietary or veterinary. Investment of about £5,000 considered. Commission required. Further details in first place, please, to Ernest J. George & Co., Ltd., Bank Chambers, 329 High Holborn, W.C.1. C 6398

APPOINTMENTS

**BARNET GENERAL HOSPITAL,
WELLHOUSE LANE,
BARNET HERTS
(490 beds)
Pharmacist**

required in this modern and well-equipped pharmacy (Category V Hospital). Barnet is terminal of Northern Line (London Transport). Whitley Council salary scale with London Weighting. Applications to Hospital Secretary (Phone: Barnet 7421), with names of two referees. C 6365

**BARNET GENERAL HOSPITAL,
WELLHOUSE LANE,
BARNET, HERTS
(490 beds)
Assistant-in-Dispensing**

required in this modern and well-equipped pharmacy (Category V hospital). Barnet is terminal of Northern Line (London Transport). Whitley Council salary scale with London Weighting. Applications to Hospital Secretary (Phone: Barnet 7421), with names of two referees. C 6366

**CITY GENERAL HOSPITAL,
SHEFFIELD, 5
(Category V Hospital)
Senior Pharmacist**

Applications are invited for the above appointment. Post offers opportunity to gain further experience in all hospital pharmaceutical practice.

Accommodation (for which an appropriate charge will be made) can be made available to a female applicant.

Apply giving full details of age, experience, etc., and the names of two persons for reference, to the Group Secretary, Sheffield No. 1 Hospital Management Committee, "Lyndhurst," Nether Edge Hospital, Sheffield, 11. C 6352

**BARNET GROUP HOSPITAL
MANAGEMENT COMMITTEE,
WELLHOUSE LANE,
BARNET, HERTS
Locum Tenens Pharmacist**

required for duties within this Group of Hospitals from June 1 to September 30. Applications, giving details of experience, etc., should be sent to the Hospital Secretary, Barnet General Hospital, at the above address. C 558

**CITY GENERAL HOSPITAL,
SHEFFIELD, 5
(Category V Hospital)**

Post-graduate Pharmaceutical Student
required from July 1961. Salary at the rate of £460 per annum.

This is an excellent opportunity for a student who is keen on hospital pharmacy to acquire a thorough grounding in all aspects of modern hospital pharmaceutical practice.

Please submit details of educational background and the names of two referees to the Hospital Secretary. C 6389

**CITY GENERAL HOSPITAL,
SHEFFIELD, 5
(Category V Hospital)
Locum Pharmacist**

required now and during the summer. Salary £18 18s. per week for eight-week periods with increased rate applicable if relieving Chief Pharmacist at the other hospital within the group (Category II) as required.

Accommodation may be provided for a female applicant, if required, for which the appropriate charge will be made.

Please include details of past experience and the names of two referees in your application which should be sent to the Hospital Secretary. C 6386

**CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE
Senior Pharmacist**

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

**KING EDWARD VII HOSPITAL,
WINDSOR
Senior Pharmacist**

Applications are invited for the above post. Salary £770—£1,010 p.a. Applications stating age, qualifications and experience, to Secretary. C 6372

**CITY GENERAL HOSPITAL,
SHEFFIELD, 5
(Category V Hospital)
Pharmacist**

Applications are invited for the appointment of Pharmacist (Basic Grade) Whitley Council Salary scales and conditions of service.

This is an interesting post in a busy acute general hospital offering an opportunity to widen experience in modern pharmaceutical practice.

Accommodation may be available for a female applicant for which an appropriate charge will be made.

Applications, including details of age, previous experience and the names of two referees, should be addressed to the Hospital Secretary. C 6385

**CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE
Locum Pharmacists**

Holiday relief vacancies.

8th May—13th May,
12th June—1st July.

Salary 18 guineas a week. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 6390

**HAMMERSMITH HOSPITAL &
POST-GRADUATE MEDICAL
SCHOOL,
DU CANE ROAD,
LONDON, W.12
Deputy Chief Pharmacist**

Applications are invited for the above post at above General Post-graduate Teaching Hospital (Category V). Whitley Council salary scale and conditions, £895—£1,200 per annum plus London Allowance.

This post provides excellent experience in all branches of pharmacy and is particularly suitable for a person with initiative, who will ultimately be seeking an important post as Chief Pharmacist.

Detailed applications, stating age, qualifications and experience and naming two referees to Secretary, Board of Governors, Hammersmith Hospital, Du Cane Road, London, W.12, by April 10. C 6377

**LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1
Locum Pharmacist**

required at the above hospital for the period April 24th to May 27th and from July 3rd for eight weeks. Salary £18 18s. per week. Applications in writing to be sent to the Chief Pharmacist. C 6373

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Appointments—Continued**NATIONAL HEALTH SERVICE
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Applications are invited for the following appointments:—

(a) Superintendent of the Liverpool Pricing Bureau in Liverpool. Salary scale £1,185 by £40 (1) x £50 (4)—£1,425 p.a.

(b) Deputy Superintendent of the Birmingham No. 2 Pricing Bureau, in Birmingham. Salary scale £1,020 x £40 (6)—£1,260 p.a.

The Superintendent will be responsible to the Committee for the efficient operation of the Bureau and the duties entail, among other things, resolving the many problems arising from the pricing of National Health Service prescriptions. Pharmaceutical and administrative experience are desirable together with ability to supervise staff.

The Deputy Superintendent will be required to assist the Superintendent in the whole range of the duties and deputise whenever necessary. The selected candidate may be required to pass a medical examination.

Applications giving age, education, qualifications, experience and the names of two referees should be sent to the Clerk of the Committee, 38 Northumberland Street, Newcastle-upon-Tyne, 1, by 8th April, 1961. C 6384

**PINDERFIELDS GENERAL
HOSPITAL,
WAKEFIELD****Assistant-in-Dispensing**

Applications invited from suitably qualified persons for the above post for a large, well-staffed Group Pharmaceutical Department. Whitley Council salary scale and conditions. Address written applications, giving full personal particulars and two names and addresses for reference, to W. Bowring, Group Secretary, Pinderfields General Hospital, Wakefield. C 6374

**PRESTON & CHORLEY
HOSPITAL MANAGEMENT
COMMITTEE,
PRESTON ROYAL INFIRMARY****Pharmacist**

required. Salary £690—£920 per annum. Applications, stating age, qualifications and experience, together with names of two referees, to Administrative Officer, Royal Infirmary, Preston, Lanes. C 6388

**ROYAL FREE HOSPITAL GROUP,
Chief Pharmacist (Category II)**

Applications are invited for the above post at the Hampstead General Hospital, Haverstock Hill, N.W.3. Salary £895 to £1,200 plus London Weighting and higher qualification allowance if applicable. Applications addressed to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 6371

**SEAMEN'S GROUP,
DREADNOUGHT SEAMEN'S
HOSPITAL,
GREENWICH, S.E.10****Locum Pharmacist**

required from 17th July—5th August; 14th—26th August; 25th September—30th September. Weekly salary 18 guineas plus hourly rate 12/6 for two overtime sessions of two hours each week. C 555

AND

**ALBERT DOCK ORTHOPAEDIC
HOSPITAL, E.16****Locum Pharmacist**

required from 28th August—16th September. Weekly salary £20 9s. 6d. Apply, House Governor, Dreadnought Hospital, Greenwich, S.E.10. C 554

**ST. NICHOLAS HOSPITAL,
TEWSON ROAD,
PLUMSTEAD, S.E.18****Locum Pharmacist**

required for long or short periods. Salary £18 18s. per week. Apply to Chief Pharmacist (Tel.: Woolwich 1441). C 6355

**UPTON HOSPITAL,
SLOUGH****Locum Senior Pharmacist**

required 4th April, part-time considered. Applications to Secretary, Upton Hospital, Slough. C 6329

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C 6382

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The Manufacturers of Brylcreem, Silvikrin, Macleans Toothpaste and many other international toiletry products require GRADUATE CHEMIST or PHARMACIST, aged under 35, as a Section Leader in their Product Research Laboratory. He will supervise a small section initiating and progressing the formulation of toiletry products and must have some relevant experience.

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Personnel Officer, County Laboratories Limited, Beecham House West, Great West Road, Brentford, Middlesex. C 6376

Appointments—Continued**ROYAL FREE HOSPITAL,
GRAY'S INN ROAD,
LONDON, W.C.1****Senior Pharmacist**

Applications invited for the above post in the Out-patient Department. Salary £770 to £1,010 per annum plus London Weighting and higher qualification allowance if applicable. Additional payment for evening clinics. Applications with names of two referees should be addressed to the Group Chief Pharmacist. C 6353

**UPTON HOSPITAL,
SLOUGH****Senior Pharmacist**

required 1st April. Applications stating age, qualifications and experience to Secretary, Upton Hospital, Slough. C 6330

EDUCATIONAL**NEW ZEALAND
EDUCATION DEPARTMENT**

Applications are invited for the following positions at the New Zealand School of Pharmacy:—

**SENIOR TUTOR OR TUTOR
IN PHARMACEUTICS**

Applicants should possess a degree or registrable qualification in pharmacy and have had teaching experience. A post-graduate qualification and/or research experience would be an additional advantage.

The appointee will be in charge of all the teaching in pharmaceuticals and will be particularly responsible for the teaching of pharmaceutical microbiology.

**TUTOR OR ASSISTANT TUTOR
IN PHARMACOGNOSY**

Applicants should possess a degree or registrable qualification in pharmacy. A post-graduate qualification, teaching or research experience would be an additional advantage. The appointee will be responsible for all the teaching in Pharmacognosy and should also be prepared to assist with the teaching of pharmaceuticals.

**SENIOR TUTOR OR TUTOR IN
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Applicants should possess a degree or registrable qualification in pharmacy and should preferably have had teaching experience. The ability to teach pharmacology would be an additional advantage.

Salary (operative from April 1, 1961):
Senior Tutor in the range £1,515—£1,705.

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The scales apply to both male and female staff and the commencing salary will depend on qualifications and experience.

Passages: Steamer fares of up to £165 each for the appointee and his wife, and pro rata for dependent children will be paid.

Incidental Expenses: Up to £35 for a single person and £100 for a married man can be claimed to cover the cost of taking personal effects to New Zealand.

Enquiries quoting reference number B11/8/9 should be addressed to the High Commissioner for New Zealand, 415 Strand, London, W.C.2, who will supply further details and application forms.

Completed applications to be lodged with this office not later than April 10, 1961. C 6349

PHARMACIST with originality required as writer for the Dispensing Course run by the City Medical Correspondence College. Please write fully to the Registrar, 56 Cannon Street, London, E.C.4. C 560

**THE UNITED DRUG & CHEMICAL COMPANY LTD.
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having acquired additional property at Ballina, are in a position to allocate approximately 6,000 sq. feet of their detached premises suitable for manufacture, packing and distribution of approved lines for the Pharmaceutical trade. The Directors would be prepared to enter into an agreement to manufacture, pack and distribute products confined to the Trade, or, alternatively, to lease the premises. The Firm had already a well-established and widespread connection with the Retail Chemists of the Republic of Ireland.

C 3515

WEST AFRICAN DRUG COMPANY LIMITED*now a member of the***JOHN HOLT GROUP**

require a qualified chemist to manage one of its branches in West Africa. This is an interesting and progressive appointment for a man of energy and initiative. Commencing salary not less than £1,350 per annum depending on age and experience. Free passages, living accommodation, medical attention etc. Initial kit allowance. Contributory pension scheme. Tours of eighteen months with leave on full pay. Applications preferably from single men under 30 years of age should be sent to the Secretary at 250 India Buildings, Liverpool, 2, giving details of qualifications and experience.

C 3512

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BLACKPOOL CO-OPERATIVE CHEMISTS, LTD., invite applications for position of Pharmacy Branch Manager (male or female) in residential area. Salary based on scale and bonus is at present £930 per annum, plus other emoluments, and offers scope for progressive advancement. Superannuation scheme with transfer clause in operation. Applications stating age, experience and present position to Superintendent Chemist, Sheppard Street, Blackpool.

C 3491

SUPERINTENDENT Manager or Manageress, locum or permanent; commence May 1. Would suit newly qualified Pharmacist. Hours 9 a.m. to 6 p.m., half-day Thursday, no Sundays or rota duties. Very good supporting assistant. Apply by letter or telephone for interview to Leslie Martyn, Ltd., 34 Dalston Lane, E.8. (Phone: C11550 0946.) C 3501

UNQUALIFIED ASSISTANT wanted, trained for dispensing and counter. State age, experience, salary, etc. R. T. Christopher, M.P.S., Bradford-on-Avon, Wilts. C 3520

WANTED IMMEDIATELY, Manager or Manageress for small family business. Working-class area. Congenial and easily run. No rota or Sunday duties. Permanent or Temporary. R. T. Davies, Ltd., 37 Raydon Street, N.19. ARC. 3377. C 3500

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WHOLESALE

ASSISTANT REQUIRED willing to learn pill coating, also light duties. Hours 8.30—5 p.m. No Saturdays. Apply to George Eade, Ltd., 232 Goswell Road, E.C.1. C 557

AYRTON, SAUNDERS & CO., LTD., require a keen pharmacist who is capable of taking administrative control of a well equipped and expanding tablet dept. Industrial experience would be an asset, but we should be interested to hear from other pharmacists who are prepared to undergo appropriate works training. A contributory pension and life assurance scheme is in operation. Please apply with full details to: Technical Director, 34 Hanover Street, Liverpool, 1. C 6336

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Applications are invited from graduates in Chemistry or Pharmacy for two vacancies as Assistants to the Marketing Managers for Fine Chemicals.

Applicants should be aged between 25 and 30 and should have had some experience on the chemical or pharmaceutical side of the industry. The successful applicants will be concerned in the sales of bulk fine chemicals and in developing markets for new chemicals arising from the Company's expanding interests in this field. The Assistant in the International Division will be required to travel abroad in connection with his duties and a working knowledge of French and German would therefore be an asset. The Home Wholesale appointment will entail travelling within the United Kingdom. Both these appointments will be based in Nottingham.

Applications, which should state full details of age, experience and qualifications, will be treated in confidence and should be addressed to the Personnel Manager, Boots Pure Drug Company, Limited, Station Street, Nottingham, quoting reference No. C.D.3. C 6380

COSMETIC COMPANY of international repute situated in Surrey, seeks a young chemist, no qualifications necessary, for assisting in laboratory and manufacture. Good salary, all facilities, excellent subsidised factory restaurant. Please reply to Box C 6369.

C I B A.

REQUIRE AT THEIR HORSHAM, SUSSEX, FACTORY

Production Pharmacist.

The successful candidate will be responsible for the production of a wide range of Pharmaceutical Specialities including Tablets, Oral Solutions, Ointments, Ampoules and Suppositories. He should have had previous experience of this nature. Knowledge and experience of Packaging Machinery would be an advantage.

Development Pharmacist.

The successful candidate will be required to work in the Pharmaceutical Development Department on formulations in connection with a wide range of Pharmaceutical and Veterinary Specialities. He should have had previous experience in work of this nature. Knowledge and experience of Aerosol formulations would be an advantage.

For both appointments a salary commensurate with qualifications and experience will be paid; the company operates a generous contributory pension fund. The factory is located in park-like surroundings in an attractive part of Sussex, 20 miles from the South Coast.

Applications, giving full details of age, qualifications, and experience, should be sent to:

Works Manager,

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Situations Vacant—Continued

EXECUTIVE, 30/35, with intimate knowledge buying and selling pharmaceutical chemicals or essential oils, required by well-known London company to establish new department. Opportunity for investment and eventual promotion to Board. Replies in confidence to Box C 6392.

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FREE-LANCE AGENT immediately required by leading manufacturers of hairdressers' bulk supplies, to take over existing connection in the Home Counties and Hants. Must be car owner. This is an excellent position. Apply Box C 3492.

MACDONALD OF MANCHESTER require a sales representative for a North Central London area to call on retail chemists, selling nationally promoted santowels, surgical dressings and dispensing lines. Attractive salary, commission and expenses. Company car provided and changed annually. Non-contributory pension scheme. If you have the ability to increase your income annually, please send details of experience, stating age to: Sales Director, Portland Mill, Ashton-under-Lyne, Lanes. C 6381

ORDER CLERKS. Required by The British Drug Houses, Ltd., for Order and Pricing work. Preference will be given to applicants with experience in the retail or wholesale chemists' trade. Five-day week, canteen, sports club, pension and profit sharing schemes. Apply in writing, stating age, experience and salary required to the Office Staff Manager, Graham Street, City Road, N.1. C 6387

POTTER & MOORE require two experienced representatives to call on wholesale and retail chemists, stores, etc. One based in Bourne-mouth for South-west England area and one based in Bristol to cover Gloucestershire and South Wales. Apply with full particulars, age, experience, etc., to the Sales Manager, Lavender House, London, E.10. C 6394

PARKE, DAVIS & COMPANY

An opportunity of an attractive career exists in the Medical Service Department for a male pharmacist aged 25-30, preferably a graduate with keen interest in pharmacology and therapeutics. Duties will include the handling of a wide range of technical queries and the compilation of medical literature on the Company's products. The successful candidate will later take part in the training of medical representatives.

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C 6397

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SITUATIONS WANTED**WHOLESALE**

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in Fine Chemical/Pharmaceutical Industry, seeks change offering greater opportunity. World-wide knowledge of sources and markets. Well connected throughout the trade. Age 33. Box C 6396.

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BERMUDA DRUG FIRM requires services of a pharmacist. For full particulars write Air Mail to P.O. Box 52, St. George's, Bermuda. C 3489

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These appointments are due to re-organisation and expansion, and offer secure, interesting, and rewarding careers. Remuneration depends on qualifications and experience, but would not be less than £900 per annum. Pension, insurance, and car schemes are in operation, and full expenses are paid.

Candidates should preferably possess pharmaceutical or equivalent qualification/experience, but applicants with a suitable technical background will be considered. Previous experience as a Representative is not essential as a comprehensive training course will be provided. The Company is engaged in extensive research, and the positions will appeal to those who are interested in dealing with members of the medical and pharmaceutical professions. Upper age limit is 40.

All applications will be treated in complete confidence and should be marked CNE when submitting them to:

SALES SELECTION LTD.
Victoria House, Southampton Row,
London, W.C.1.

NO FEES ARE CHARGED TO CANDIDATES

C 3497

THE CROOKES LABORATORIES LIMITED

require representatives for the following territories:

- (1) South London
- (2) Cheshire and North Wales
- (3) Essex and East London.

A pharmaceutical qualification or adequate technical background is essential. The appointments are superannuated and well remunerated with progressive salary, adequate expense allowance and commission directly associated with territorial results. Promotion is possible either in the U.K. or the overseas positions. Only candidates with keen desire to progress should apply in writing, with full details regarding age and past experience, with recent photograph if possible, to the Sales Director, The Crookes Laboratories Limited, Gorst Road, Park Royal, London, N.W.10.

C6378

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C 438

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Tel.: Bayswater 4020 and 7692. C 140

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